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merox is an acronym for mercaptan oxidation it is a proprietary catalytic chemical process developed by uop used in oil refineries and natural gas processing plants to remove mercaptans from lpg propane butanes light naphthas kerosene and jet fuel by converting them to liquid hydrocarbon disulfides

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the merox process was first developed by uop back in 1958 over time many variations of the merox process have developed to solve diferent hydrocarbon refining applications caustic naoh is favored for these processes since it reacts with both hydrogen sulfide h2s as well as mercaptans rsh

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in one respect om scholars were bending over backwards to make theories from other fields fit our research problems in another questionable assumptions were being used to apply mathematics to om problems

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in this paper we discuss the merox process and mechanisms by which the catalyst selectively oxidizes thiols additionally we discuss the development of promoted thiol oxidation catalyst systems which eliminate the use of caustic media in the oxidation process

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the uop merox process is an efficient and economical catalytic process developed for the treatment of petroleum fractions to remove sulfur present as thiols or to directly convert thiols to less objectionable disulfides

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merox is an acronym for mercaptan oxidation a well established process to remove mercaptans from refined products such as kerosene and jet fuel to meet the regulatory requirements for reduced sulfur levels in aviation fuel

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examples of the process specifications for each an extensive glossary and dictionary of the terms and expressions used in petroleum refining plus appendices supplying data such as converging factors and selected crude oil assays as well as an example of optimizing a refinery configuration using linear programming are all included to aid the

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details and examples of the process specifications for each an extensive glossary and dictionary of the terms and

expressions used in petroleum refining plus appendices supplying data such as converging factors and selected crude oil assays as well as an example of optimizing a refinery configuration using linear programming are all

### process simulation and exergy analysis of a mercaptan May 08 2023

abstract in this work the mercaptan oxidation unit of an oil and gas refinery was simulated and assessed using exergy and parametric sensitivity analysis to identify opportunities for improvement from a technical and energy point of view the process simulation was performed using aspen hysys v10 1 to obtain extended mass and energy balances

### Ipg merox process in petroleum refinery Apr 07 2023

the merox process can be applied in a petroleum refinery to treat kerosene jet fuel naphtha lpg or natural gas for order improvement sulfur removal meet product specifications and help the oxidation inhibitors to prevent gum formation in the gasoline

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in this paper we discuss the merox process and mechanisms by which the catalyst selectively oxidizes thiols additionally we discuss the development of promoted thiol oxidation

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aspects such as thermodynamics reaction kinetics process variables process scheme and reactor design are discussed in detail from both research and commercial points of view results of

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merox is an acronym for mercaptan oxidation it is a proprietary catalytic chemical process developed by dr william gleim of universal oil products uop and used in oil refineries and natural gas processing plants to remove mercaptans from lpg propane butanes light naphthas kerosene and jet fuel by converting them to liquid hydrocarbon

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as environmental regulations tighten to reduce greenhouse gas emissions refiners rely on honeywell uop s merox process technologies for sulfur extraction and sweetening uop s lineup of merox catalysts can help you meet stringent product specifications with consistently high quality

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merox process by uop llc extraction of mercaptans from gases lpg lower boiling fractions and gasolines or sweetening of gasoline and heavier stocks by in situ conversion of mercaptans into disulfides

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