

# (4R,7S)-7-isopropyl-4methyloxepane-2-thione

<b>Inchi:</b>	InChI=1S/C10H18OS/c1-7(2)9-5-4-8(3)6-10(12)11-9/h7-9H,4-6H2,1-3H3/t8-,9-/m0/s1
<b>InchiKey:</b>	HRMAROUHNNJLJG-IUCAKERBSA-N
<b>Formula:</b>	C10H18OS
<b>SMILES:</b>	CC1CCC(C(C)C)OC(=S)C1
<b>Mol. weight [g/mol]:</b>	186.31

## Physical Properties

Property code	Value	Unit	Source
gf	40.25	kJ/mol	Joback Method
hf	-244.09	kJ/mol	Joback Method
hfus	22.95	kJ/mol	Joback Method
hvap	49.75	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.175		Crippen Method
mcvol	158.820	ml/mol	McGowan Method
pc	2718.33	kPa	Joback Method
rinpol	1446.00		NIST Webbook
rinpol	1446.00		NIST Webbook
ripol	2061.00		NIST Webbook
tb	546.50	K	Joback Method
tc	774.46	K	Joback Method
tf	277.32	K	Joback Method
vc	0.573	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	381.06	J/molxK	546.50	Joback Method
cpg	399.98	J/molxK	584.49	Joback Method
cpg	417.76	J/molxK	622.49	Joback Method
cpg	434.45	J/molxK	660.48	Joback Method
cpg	450.07	J/molxK	698.48	Joback Method
cpg	464.67	J/molxK	736.47	Joback Method
cpg	478.27	J/molxK	774.46	Joback Method

# Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R422456&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R422456&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpolar:</b>	Non-polar retention indices
<b>ripolar:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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