

# Cycloate

<b>Other names:</b>	Carbamic acid, cyclohexylethylthio-, S-ethyl ester Carbamothioic acid, cyclohexylethyl-, S-ethyl ester Cyclohexanecarbamic acid, N-ethylthio-, S-ethyl ester Etsan Eurex Hexylthiocarbam R 2063 Ro-Neet Ro-Neet 6E Ronit S-Ethyl (cyclohexyl)ethylthiocarbamate S-Ethyl N-cyclohexyl-N-ethylthiocarbamate S-Ethyl N-ethyl-N-cyclohexylthiocarbamate S-ethyl N-cyclohexylthiocarbamate Sabet
<b>Inchi:</b>	InChI=1S/C11H21NOS/c1-3-12(11(13)14-4-2)10-8-6-5-7-9-10/h10H,3-9H2,1-2H3
<b>InchiKey:</b>	DFCAFRGABIXSDS-UHFFFAOYSA-N
<b>Formula:</b>	C11H21NOS
<b>SMILES:</b>	CCSC(=O)N(CC)C1CCCCC1
<b>Mol. weight [g/mol]:</b>	215.36
<b>CAS:</b>	1134-23-2

## Physical Properties

Property code	Value	Unit	Source
gf	81.17	kJ/mol	Joback Method
hf	-219.23	kJ/mol	Joback Method
hfus	24.83	kJ/mol	Joback Method
hvap	56.11	kJ/mol	Joback Method
log10ws	-3.40		Estimated Solubility Method
log10ws	-3.40		Aqueous Solubility Prediction Method
logp	3.514		Crippen Method
mcvol	182.890	ml/mol	McGowan Method
pc	2522.65	kPa	Joback Method
rinpol	1638.00		NIST Webbook
rinpol	1642.00		NIST Webbook

tb	605.72	K	Joback Method
tc	825.06	K	Joback Method
tf	284.65	K	Aqueous Solubility Prediction Method
vc	0.662	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.17	J/mol×K	605.72	Joback Method
cpg	495.47	J/mol×K	642.28	Joback Method
cpg	513.55	J/mol×K	678.83	Joback Method
cpg	530.43	J/mol×K	715.39	Joback Method
cpg	546.17	J/mol×K	751.95	Joback Method
cpg	560.80	J/mol×K	788.51	Joback Method
cpg	574.35	J/mol×K	825.06	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=C1134232&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1134232&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>rinpola:</b>	Non-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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