

Cyclohexyl stearate

Inchi:	InChI=1S/C24H46O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-19-22-24(25)26-23-20-17-16
InchiKey:	NRVKWKPZZQHRSP-UHFFFAOYSA-N
Formula:	C24H46O2
SMILES:	CCCCCCCCCCCCCCCCCCCC(=O)OC1CCCCC1
Mol. weight [g/mol]:	366.62
CAS:	104-07-4

Physical Properties

Property code	Value	Unit	Source
gf	-58.27	kJ/mol	Joback Method
hf	-729.17	kJ/mol	Joback Method
hfus	52.54	kJ/mol	Joback Method
hvap	78.60	kJ/mol	Joback Method
log10ws	-8.74		Crippen Method
logp	8.124		Crippen Method
mcvol	345.600	ml/mol	McGowan Method
pc	934.63	kPa	Joback Method
rinpol	2628.00		NIST Webbook
rinpol	2628.00		NIST Webbook
tb	844.36	K	Joback Method
tc	1036.78	K	Joback Method
tf	439.78	K	Joback Method
vc	1.337	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1156.18	J/mol×K	844.36	Joback Method
cpg	1178.05	J/mol×K	876.43	Joback Method
cpg	1198.57	J/mol×K	908.50	Joback Method
cpg	1217.79	J/mol×K	940.57	Joback Method
cpg	1235.75	J/mol×K	972.64	Joback Method
cpg	1252.49	J/mol×K	1004.71	Joback Method
cpg	1268.06	J/mol×K	1036.78	Joback Method

dvisc	0.0012172	Pa×s	439.78	Joback Method
dvisc	0.0004822	Pa×s	507.21	Joback Method
dvisc	0.0002374	Pa×s	574.64	Joback Method
dvisc	0.0001357	Pa×s	642.07	Joback Method
dvisc	0.0000862	Pa×s	709.50	Joback Method
dvisc	0.0000593	Pa×s	776.93	Joback Method
dvisc	0.0000433	Pa×s	844.36	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104074&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

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

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