

OCTANOIC ACID, CYCLOHEXYL ESTER

Other names:	Cyclohexyl caprylate
Inchi:	InChI=1S/C14H26O2/c1-2-3-4-5-9-12-14(15)16-13-10-7-6-8-11-13/h13H,2-12H2,1H3
InchiKey:	TXWXLLMVRVKQSO-UHFFFAOYSA-N
Formula:	C14H26O2
SMILES:	CCCCCCCC(=O)OC1CCCCC1
Mol. weight [g/mol]:	226.36

Physical Properties

Property code	Value	Unit	Source
af	0.6593		Cheméo Relay (1.0)
hf	-615.71	kJ/mol	Cheméo Relay (1.0)
hfus	26.64	kJ/mol	Joback Method
hvap	73.94	kJ/mol	Cheméo Relay (1.0)
ie	9.62	eV	Cheméo Relay (1.0)
log10ws	-4.55		Cheméo Relay (1.0)
logp	4.223		Crippen Method
mcvol	204.700	ml/mol	McGowan Method
pc	1872.41	kPa	Joback Method
rinpol	1600.00		NIST Webbook
rinpol	1600.00		NIST Webbook
tb	548.85	K	Cheméo Relay (1.0)
tc	756.68	K	Cheméo Relay (1.0)
tf	247.96	K	Cheméo Relay (1.0)
vc	0.767	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	559.97	J/mol×K	615.56	Joback Method
cpg	664.38	J/mol×K	809.77	Joback Method
cpg	649.42	J/mol×K	777.41	Joback Method
cpg	633.51	J/mol×K	745.04	Joback Method
cpg	616.63	J/mol×K	712.67	Joback Method
cpg	598.76	J/mol×K	680.30	Joback Method

cpg	579.88	J/mol×K	647.93	Joback Method
dvisc	0.0004679	Pa×s	471.32	Joback Method
dvisc	0.0001630	Pa×s	615.56	Joback Method
dvisc	0.0002182	Pa×s	567.48	Joback Method
dvisc	0.0003085	Pa×s	519.40	Joback Method
dvisc	0.0034050	Pa×s	327.08	Joback Method
dvisc	0.0007802	Pa×s	423.24	Joback Method
dvisc	0.0014830	Pa×s	375.16	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1551424&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
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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