Cyclohexene, 3-octyl-

Other names: 3-Octyl-1-cyclohexene
Inchi: InChI=1S/C14H26/c1-2-3-4-5-6-8-11-14-12-9-7-10-13-14/h9,12,14H,2-8,10-11,13H2,1H3
InchiKey: YZWGYSTVNHGSJX-UHFFFAOYSA-N
Formula: C14H26
SMILES: CCCCCCCCC1C=CCCC1
Mol. weight [g/mol]: 194.36
CAS: 15232-94-7

Physical Properties

Property code	Value	Unit	Source
gf	121.41	kJ/mol	Joback Method
hf	-220.19	kJ/mol	Joback Method
hfus	25.07	kJ/mol	Joback Method
hvap	47.48	kJ/mol	Joback Method
log10ws	-5.19		Crippen Method
logp	5.093		Crippen Method
mcvol	192.960	ml/mol	McGowan Method
pc	1856.31	kPa	Joback Method
ripol	1609.20		NIST Webbook
ripol	1601.00		NIST Webbook
ripol	1605.00		NIST Webbook
ripol	1618.00		NIST Webbook
ripol	1623.00		NIST Webbook
ripol	1572.00		NIST Webbook
ripol	1587.00		NIST Webbook
ripol	1592.00		NIST Webbook
ripol	1598.00		NIST Webbook
ripol	1587.00		NIST Webbook
ripol	1609.00		NIST Webbook
ripol	1585.50		NIST Webbook
ripol	1591.60		NIST Webbook
ripol	1597.70		NIST Webbook
ripol	1603.50		NIST Webbook
ripol	1604.00		NIST Webbook
ripol	1586.00		NIST Webbook
tb	538.43	K	Joback Method
tc	727.80	K	Joback Method

tf	255.68	K	Joback Method
vc	0.739	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	478.82	J/mol×K	538.43	Joback Method
cpg	573.38	J/mol×K	696.24	Joback Method
cpg	556.40	J/mol×K	664.68	Joback Method
cpg	538.48	J/mol×K	633.12	Joback Method
cpg	519.60	J/mol×K	601.55	Joback Method
cpg	499.73	J/mol×K	569.99	Joback Method
cpg	589.45	J/mol×K	727.80	Joback Method
dvisc	0.0002007	Pa×s	538.43	Joback Method
dvisc	0.0002697	Pa×s	491.31	Joback Method
dvisc	0.0003857	Pa×s	444.18	Joback Method
dvisc	0.0006006	Pa×s	397.06	Joback Method
dvisc	0.0010536	Pa×s	349.93	Joback Method
dvisc	0.0022018	Pa×s	302.81	Joback Method
dvisc	0.0060374	Pa×s	255.68	Joback Method

Sources

McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15232947&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume