Cyclohexene, 3-pentyl-

Other names: 3-Pentyl-1-cyclohexene
Inchi: InChI=1S/C11H20/c1-2-3-5-8-11-9-6-4-7-10-11/h6,9,11H,2-5,7-8,10H2,1H3
InchiKey: OUBDONKLEWYBJJ-UHFFFAOYSA-N
Formula: C11H20
SMILES: CCCCCC1C=CCCC1
Mol. weight [g/mol]: 152.28
CAS: 15232-92-5

Physical Properties

Property code	Value	Unit	Source
gf	96.15	kJ/mol	Joback Method
hf	-158.27	kJ/mol	Joback Method
hfus	17.30	kJ/mol	Joback Method
hvap	40.80	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2419.50	kPa	Joback Method
rinpol	1144.00		NIST Webbook
ripol	1292.00		NIST Webbook
ripol	1270.40		NIST Webbook
ripol	1264.60		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1302.00		NIST Webbook
ripol	1306.00		NIST Webbook
ripol	1317.00		NIST Webbook
ripol	1298.00		NIST Webbook
ripol	1276.00		NIST Webbook
ripol	1282.00		NIST Webbook
ripol	1287.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1298.00		NIST Webbook
ripol	1265.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1275.90		NIST Webbook
ripol	1281.60		NIST Webbook
ripol	1287.00		NIST Webbook

ripol	1292.30		NIST Webbook
ripol	1323.00		NIST Webbook
tb	469.79	K	Joback Method
tc	666.26	K	Joback Method
tf	221.87	K	Joback Method
vc	0.571	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.80	J/mol×K	469.79	Joback Method
cpg	349.94	J/mol×K	502.53	Joback Method
cpg	368.13	J/mol×K	535.28	Joback Method
cpg	385.41	J/mol×K	568.02	Joback Method
cpg	401.79	J/mol×K	600.77	Joback Method
cpg	417.31	J/mol×K	633.51	Joback Method
cpg	432.00	J/mol×K	666.26	Joback Method
dvisc	0.0064592	Pa×s	221.87	Joback Method
dvisc	0.0024418	Pa×s	263.19	Joback Method
dvisc	0.0012020	Pa×s	304.51	Joback Method
dvisc	0.0007009	Pa×s	345.83	Joback Method
dvisc	0.0004586	Pa×s	387.15	Joback Method
dvisc	0.0003256	Pa×s	428.47	Joback Method
dvisc	0.0002455	Pa×s	469.79	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C15232925&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

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume