

Cyclohexene, 1-isopentyl-

Other names:	1-Isoamylcyclohexene-1
Inchi:	InChI=1S/C11H20/c1-10(2)8-9-11-6-4-3-5-7-11/h6,10H,3-5,7-9H2,1-2H3
InchiKey:	QATQACDSNXQUEE-UHFFFAOYSA-N
Formula:	C11H20
SMILES:	CC(C)CCC1=CCCCC1
Mol. weight [g/mol]:	152.28
CAS:	3983-04-8

Physical Properties

Property code	Value	Unit	Source
gf	91.79	kJ/mol	Joback Method
hf	-154.68	kJ/mol	Joback Method
hfus	12.32	kJ/mol	Joback Method
hvap	41.38	kJ/mol	Joback Method
log10ws	-3.93		Crippen Method
logp	3.923		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
tb	468.70 ± 4.00	K	NIST Webbook
tc	681.53	K	Joback Method
tf	223.63	K	Joback Method
vc	0.566	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.23	J/mol×K	479.00	Joback Method
cpg	417.25	J/mol×K	647.77	Joback Method
cpg	402.05	J/mol×K	614.02	Joback Method
cpg	385.99	J/mol×K	580.26	Joback Method
cpg	369.01	J/mol×K	546.51	Joback Method
cpg	351.11	J/mol×K	512.75	Joback Method
cpg	431.60	J/mol×K	681.53	Joback Method
dvisc	0.0002143	Paxs	479.00	Joback Method

dvisc	0.0002973	Paxs	436.44	Joback Method
dvisc	0.0004428	Paxs	393.88	Joback Method
dvisc	0.0007264	Paxs	351.31	Joback Method
dvisc	0.0013657	Paxs	308.75	Joback Method
dvisc	0.0031420	Paxs	266.19	Joback Method
dvisc	0.0099267	Paxs	223.63	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3983048&Units=SI

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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