1-Cyclohexyl-1-pentanol

Inchi: InChI=1S/C11H22O/c1-2-3-9-11(12)10-7-5-4-6-8-10/h10-12H,2-9H2,1H3
InchiKey: PKXSPCMDZCKLCI-UHFFFAOYSA-N
Formula: C11H22O
SMILES: CCCCC(O)C1CCCCC1
Mol. weight [g/mol]: 170.29
CAS: 93548-33-5

Physical Properties

Property code	Value	Unit	Source
gf	-73.07	kJ/mol	Joback Method
hf	-373.56	kJ/mol	Joback Method
hfus	16.65	kJ/mol	Joback Method
hvap	56.80	kJ/mol	Joback Method
log10ws	-3.46		Crippen Method
logp	3.118		Crippen Method
mcvol	160.860	ml/mol	McGowan Method
pc	2579.34	kPa	Joback Method
tb	562.37	K	Joback Method
tc	750.10	K	Joback Method
tf	266.93	K	Joback Method
vc	0.598	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	418.51	J/mol×K	562.37	Joback Method
cpg	496.62	J/mol×K	718.81	Joback Method
cpg	482.63	J/mol×K	687.52	Joback Method
cpg	467.84	J/mol×K	656.24	Joback Method
cpg	452.25	J/mol×K	624.95	Joback Method
cpg	435.81	J/mol×K	593.66	Joback Method
cpg	509.85	J/mol×K	750.10	Joback Method
dvisc	0.0000961	Pa×s	562.37	Joback Method
dvisc	0.0001668	Pa×s	513.13	Joback Method

dvisc	0.0003252	Pa×s	463.89	Joback Method
dvisc	0.0007430	Pa×s	414.65	Joback Method
dvisc	0.0021210	Pa×s	365.41	Joback Method
dvisc	0.0083948	Pa×s	316.17	Joback Method
dvisc	0.0551966	Pa×s	266.93	Joback Method

Sources

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=C93548335&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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