Pentylidenecyclohexane

Inchi: InChI=1S/C11H20/c1-2-3-5-8-11-9-6-4-7-10-11/h8H,2-7,9-10H2,1H3
InchiKey: DOVNMMSNHCGVGX-UHFFFAOYSA-N
Formula: C11H20
SMILES: CCCCC=C1CCCCC1
Mol. weight [g/mol]: 152.28
CAS: 39546-79-7

Physical Properties

Property code	Value	Unit	Source
gf	119.36	kJ/mol	Joback Method
hf	-119.68	kJ/mol	Joback Method
hfus	15.33	kJ/mol	Joback Method
hvap	41.61	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.067		Crippen Method
mcvol	150.690	ml/mol	McGowan Method
pc	2482.59	kPa	Joback Method
tb	481.94	K	Joback Method
tc	683.68	K	Joback Method
tf	235.71	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.08	J/mol×K	481.94	Joback Method
cpg	350.93	J/mol×K	515.56	Joback Method
cpg	368.78	J/mol×K	549.19	Joback Method
cpg	385.70	J/mol×K	582.81	Joback Method
cpg	401.70	J/mol×K	616.44	Joback Method
cpg	416.83	J/mol×K	650.06	Joback Method
cpg	431.12	J/mol×K	683.68	Joback Method
dvisc	0.0067786	Pa×s	235.71	Joback Method
dvisc	0.0024663	Pa×s	276.75	Joback Method

dvisc	0.0011651	Pa×s	317.79	Joback Method
dvisc	0.0006534	Pa×s	358.83	Joback Method
dvisc	0.0004126	Pa×s	399.86	Joback Method
dvisc	0.0002838	Pa×s	440.90	Joback Method
dvisc	0.0002081	Pa×s	481.94	Joback Method

Sources

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=C39546797&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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