Allylidenecyclohexane

Inchi: InChI=1S/C9H14/c1-2-6-9-7-4-3-5-8-9/h2,6H,1,3-5,7-8H2
InchiKey: OZHPVKGWTMAESF-UHFFFAOYSA-N
Formula: C9H14
SMILES: C=CC=C1CCCCC1
Mol. weight [g/mol]: 122.21
CAS: 5664-10-8

Physical Properties

Property code	Value	Unit	Source
gf	190.36	kJ/mol	Joback Method
hf	47.03	kJ/mol	Joback Method
hfus	8.87	kJ/mol	Joback Method
hvap	36.48	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	3.063		Crippen Method
mcvol	118.210	ml/mol	McGowan Method
pc	3181.14	kPa	Joback Method
tb	432.86	K	Joback Method
tc	644.55	K	Joback Method
tf	211.41	K	Joback Method
vc	0.438	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.24	J/mol×K	432.86	Joback Method
cpg	299.67	J/mol×K	609.27	Joback Method
cpg	286.72	J/mol×K	573.99	Joback Method
cpg	272.94	J/mol×K	538.71	Joback Method
cpg	258.29	J/mol×K	503.42	Joback Method
cpg	242.74	J/mol×K	468.14	Joback Method
cpg	311.84	J/mol×K	644.55	Joback Method
dvisc	0.0002317	Pa×s	432.86	Joback Method
dvisc	0.0003101	Pa×s	395.95	Joback Method

dvisc	0.0004407	Pa×s	359.04	Joback Method
dvisc	0.0006789	Pa×s	322.13	Joback Method
dvisc	0.0011693	Pa×s	285.23	Joback Method
dvisc	0.0023675	Pa×s	248.32	Joback Method
dvisc	0.0061319	Pa×s	211.41	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=C5664108&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

Latest version available from:
https://www.chemeo.com/cid/52-808-7/Allylidenecyclohexane.pdf
Generated by Cheméo on 2024-04-26 04:39:29.010770425 +0000 UTC m=+16395617.931347740.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.