

Ethylidenecycloheptane

Inchi:	InChI=1S/C9H16/c1-2-9-7-5-3-4-6-8-9/h2H,3-8H2,1H3
InchiKey:	MLFGNFYXTYMGAT-UHFFFAOYSA-N
Formula:	C9H16
SMILES:	CC=C1CCCCC1
Mol. weight [g/mol]:	124.22
CAS:	10494-87-8

Physical Properties

Property code	Value	Unit	Source
gf	90.42	kJ/mol	Joback Method
hf	-84.56	kJ/mol	Joback Method
hfus	8.05	kJ/mol	Joback Method
hvap	37.33	kJ/mol	Joback Method
log10ws	-3.34		Crippen Method
logp	3.287		Crippen Method
mcvol	122.510	ml/mol	McGowan Method
pc	3121.00	kPa	Joback Method
tb	440.45	K	Joback Method
tc	655.93	K	Joback Method
tf	209.65	K	Joback Method
vc	0.449	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.73	J/mol×K	440.45	Joback Method
cpg	259.89	J/mol×K	476.36	Joback Method
cpg	277.08	J/mol×K	512.28	Joback Method
cpg	293.34	J/mol×K	548.19	Joback Method
cpg	308.69	J/mol×K	584.10	Joback Method
cpg	323.16	J/mol×K	620.01	Joback Method
cpg	336.77	J/mol×K	655.93	Joback Method
dvisc	0.0118957	Paxs	209.65	Joback Method
dvisc	0.0035579	Paxs	248.12	Joback Method

dvisc	0.0014714	Paxs	286.58	Joback Method
dvisc	0.0007499	Paxs	325.05	Joback Method
dvisc	0.0004408	Paxs	363.52	Joback Method
dvisc	0.0002869	Paxs	401.98	Joback Method
dvisc	0.0002012	Paxs	440.45	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=C10494878&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
mcvol:	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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