Cyclopropane, 1-ethyl-2-pentyl-

Other names: 1-Ethyl-2-pentylcyclopropane
Inchi: InChI=1S/C10H20/c1-3-5-6-7-10-8-9(10)4-2/h9-10H,3-8H2,1-2H3
InchiKey: NGPAWDWHJZHYDU-UHFFFAOYSA-N
Formula: C10H20
SMILES: CCCCCC1CC1CC
Mol. weight [g/mol]: 140.27
CAS: 62238-08-8

Physical Properties

Property code	Value	Unit	Source
gf	86.36	kJ/mol	Joback Method
hf	-197.27	kJ/mol	Joback Method
hfus	20.86	kJ/mol	Joback Method
hvap	37.46	kJ/mol	Joback Method
log10ws	-3.42		Crippen Method
logp	3.613		Crippen Method
mcvol	140.900	ml/mol	McGowan Method
pc	2309.17	kPa	Joback Method
rinpol	955.00		NIST Webbook
tb	430.27	K	Joback Method
tc	605.23	K	Joback Method
tf	216.16	K	Joback Method
vc	0.551	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	300.86	J/mol×K	430.27	Joback Method
cpg	377.52	J/mol×K	576.07	Joback Method
cpg	363.57	J/mol×K	546.91	Joback Method
cpg	348.96	J/mol×K	517.75	Joback Method
cpg	333.65	J/mol×K	488.59	Joback Method
cpg	317.63	J/mol×K	459.43	Joback Method
cpg	390.82	J/mol×K	605.23	Joback Method

dvisc	0.0003889	Pa×s	430.27	Joback Method
dvisc	0.0004310	Pa×s	394.58	Joback Method
dvisc	0.0004875	Pa×s	358.90	Joback Method
dvisc	0.0005665	Pa×s	323.21	Joback Method
dvisc	0.0006834	Pa×s	287.53	Joback Method
dvisc	0.0008694	Pa×s	251.84	Joback Method
dvisc	0.0011975	Pa×s	216.16	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=C62238088&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume