

3-(cis-Ethylidene)-1-cyclopentene

Inchi:	InChI=1S/C7H10/c1-2-7-5-3-4-6-7/h2-3,5H,4,6H2,1H3/b7-2+
InchiKey:	UGALXONOEQYOOW-FARCUNLSSA-N
Formula:	C7H10
SMILES:	CC=C1C=CCC1
Mol. weight [g/mol]:	94.15
CAS:	22704-38-7

Physical Properties

Property code	Value	Unit	Source
gf	127.74	kJ/mol	Joback Method
hf	84.50	kJ/mol	NIST Webbook
hfus	8.29	kJ/mol	Joback Method
hvap	32.82	kJ/mol	Joback Method
log10ws	-2.35		Crippen Method
logp	2.283		Crippen Method
mcvol	90.030	ml/mol	McGowan Method
pc	3848.31	kPa	Joback Method
tb	385.31	K	Joback Method
tc	590.11	K	Joback Method
tf	194.91	K	Joback Method
vc	0.339	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	150.91	J/molxK	385.31	Joback Method
cpg	163.38	J/molxK	419.44	Joback Method
cpg	175.11	J/molxK	453.58	Joback Method
cpg	186.15	J/molxK	487.71	Joback Method
cpg	196.52	J/molxK	521.85	Joback Method
cpg	206.27	J/molxK	555.98	Joback Method
cpg	215.43	J/molxK	590.11	Joback Method
dvisc	0.0025317	Paxs	194.91	Joback Method
dvisc	0.0013060	Paxs	226.64	Joback Method

dvisc	0.0007927	Paxs	258.38	Joback Method
dvisc	0.0005367	Paxs	290.11	Joback Method
dvisc	0.0003924	Paxs	321.84	Joback Method
dvisc	0.0003035	Paxs	353.58	Joback Method
dvisc	0.0002449	Paxs	385.31	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=C22704387&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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