

Dicyclopentadiene, 8-methyl, # 2

Inchi:	InChI=1S/C11H14/c1-7-5-8-6-11(7)10-4-2-3-9(8)10/h2-3,5,8-11H,4,6H2,1H3/t8-,9?,10?,11?
InchiKey:	XETWYCDNVJPDED-AGVGLQIMSA-N
Formula:	C11H14
SMILES:	CC1=CC2CC1C1CC=CC21
Mol. weight [g/mol]:	146.23

Physical Properties

Property code	Value	Unit	Source
gf	254.47	kJ/mol	Joback Method
hf	25.62	kJ/mol	Joback Method
hfus	19.68	kJ/mol	Joback Method
hvap	40.93	kJ/mol	Joback Method
log10ws	-2.85		Crippen Method
logp	2.775		Crippen Method
mcvol	124.670	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
rinsol	1070.00		NIST Webbook
tb	474.20	K	Joback Method
tc	690.55	K	Joback Method
tf	273.83	K	Joback Method
vc	0.485	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.92	J/molxK	474.20	Joback Method
cpg	307.62	J/molxK	510.26	Joback Method
cpg	324.98	J/molxK	546.32	Joback Method
cpg	341.10	J/molxK	582.37	Joback Method
cpg	356.06	J/molxK	618.43	Joback Method
cpg	369.97	J/molxK	654.49	Joback Method
cpg	382.93	J/molxK	690.55	Joback Method
dvisc	0.0005705	Paxs	273.83	Joback Method
dvisc	0.0006899	Paxs	307.23	Joback Method

dvisc	0.0008036	Paxs	340.62	Joback Method
dvisc	0.0009110	Paxs	374.01	Joback Method
dvisc	0.0010117	Paxs	407.41	Joback Method
dvisc	0.0011059	Paxs	440.80	Joback Method
dvisc	0.0011937	Paxs	474.20	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=R531807&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
mccvol:	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

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