Dicyclopentadiene, 4-methyl

Inchi: InChI=1S/C11H14/c1-7-4-10-8-2-3-9(6-8)11(10)5-7/h2-4,8-11H,5-6H2,1H3
InchiKey: UWRAJMCLEUFSQH-UHFFFAOYSA-N
Formula: C11H14
SMILES: CC1=CC2C3C=CC(C3)C2C1
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
rinpol	1064.00		NIST Webbook
tb	474.20	K	Joback Method
tc	690.55	K	Joback Method
tf	273.83	K	Joback Method
vc	0.485	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.92	J/mol×K	474.20	Joback Method
cpg	369.97	J/mol×K	654.49	Joback Method
cpg	356.06	J/mol×K	618.43	Joback Method
cpg	341.10	J/mol×K	582.37	Joback Method
cpg	324.98	J/mol×K	546.32	Joback Method
cpg	307.62	J/mol×K	510.26	Joback Method
cpg	382.93	J/mol×K	690.55	Joback Method
dvisc	0.0011937	Pa×s	474.20	Joback Method
dvisc	0.0011059	Pa×s	440.80	Joback Method

dvisc	0.0010117	Pa×s	407.41	Joback Method
dvisc	0.0009110	Pa×s	374.01	Joback Method
dvisc	0.0008036	Pa×s	340.62	Joback Method
dvisc	0.0006899	Pa×s	307.23	Joback Method
dvisc	0.0005705	Pa×s	273.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R495548&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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

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