

4,7-Methano-1H-indene,octahydro-8-methyl-,stere

Inchi:	InChI=1S/C11H18/c1-7-8-5-6-9(7)11-4-2-3-10(8)11/h7-11H,2-6H2,1H3
InchiKey:	JIOAEIDAELDISL-UHFFFAOYSA-N
Formula:	C11H18
SMILES:	CC1C2CCC1C1CCCC21
Mol. weight [g/mol]:	150.26
CAS:	50745-92-1

Physical Properties

Property code	Value	Unit	Source
gf	196.47	kJ/mol	Joback Method
hf	-98.81	kJ/mol	Joback Method
hfus	18.69	kJ/mol	Joback Method
hvap	39.37	kJ/mol	Joback Method
ie	9.35 ± 0.05	eV	NIST Webbook
log10ws	-2.90		Crippen Method
logp	3.079		Crippen Method
mcvol	133.270	ml/mol	McGowan Method
pc	2698.60	kPa	Joback Method
tb	466.23	K	Joback Method
tc	676.61	K	Joback Method
tf	255.55	K	Joback Method
vc	0.512	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	319.04	J/molxK	466.23	Joback Method
cpg	341.08	J/molxK	501.29	Joback Method
cpg	361.70	J/molxK	536.36	Joback Method
cpg	380.97	J/molxK	571.42	Joback Method
cpg	398.99	J/molxK	606.48	Joback Method
cpg	415.85	J/molxK	641.54	Joback Method
cpg	431.62	J/molxK	676.61	Joback Method
dvisc	0.0005341	Paxs	255.55	Joback Method

dvisc	0.0006712	Paxs	290.66	Joback Method
dvisc	0.0008029	Paxs	325.78	Joback Method
dvisc	0.0009276	Paxs	360.89	Joback Method
dvisc	0.0010446	Paxs	396.00	Joback Method
dvisc	0.0011538	Paxs	431.12	Joback Method
dvisc	0.0012554	Paxs	466.23	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C50745921&Units=SI
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

Legend

cp_g:	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
h_{vap}:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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