

1H-Benz[f]indene

Inchi:	InChI=1S/C13H10/c1-2-5-11-9-13-7-3-6-12(13)8-10(11)4-1/h1-6,8-9H,7H2
InchiKey:	LJVOKUMRGIJGP-UHFFFAOYSA-N
Formula:	C13H10
SMILES:	C1=Cc2cc3ccccc3cc2C1
Mol. weight [g/mol]:	166.22
CAS:	268-40-6

Physical Properties

Property code	Value	Unit	Source
gf	356.80	kJ/mol	Joback Method
hf	243.93	kJ/mol	Joback Method
hfus	17.99	kJ/mol	Joback Method
hvap	50.29	kJ/mol	Joback Method
log10ws	-4.38		Crippen Method
logp	3.409		Crippen Method
mcvol	135.650	ml/mol	McGowan Method
pc	3376.28	kPa	Joback Method
tb	563.03	K	Joback Method
tc	810.68	K	Joback Method
tf	343.37	K	Joback Method
vc	0.521	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.80	J/molxK	563.03	Joback Method
cpg	368.35	J/molxK	769.40	Joback Method
cpg	358.06	J/molxK	728.13	Joback Method
cpg	346.90	J/molxK	686.85	Joback Method
cpg	334.73	J/molxK	645.58	Joback Method
cpg	321.41	J/molxK	604.30	Joback Method
cpg	377.92	J/molxK	810.68	Joback Method
dvisc	0.0005951	Paxs	563.03	Joback Method
dvisc	0.0006572	Paxs	526.42	Joback Method

dvisc	0.0007367	Paxs	489.81	Joback Method
dvisc	0.0008412	Paxs	453.20	Joback Method
dvisc	0.0009831	Paxs	416.59	Joback Method
dvisc	0.0011839	Paxs	379.98	Joback Method
dvisc	0.0014835	Paxs	343.37	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=C268406&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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