2,7-Methano-1H-cyclopropa[b]naphthalene,1a,2,7

Other names: 2,7-Methano-1H-cyclopropa[b]naphthalene,1a,2,7,7a-tetrahydro-(1a«alpha»,2«beta»,7«b
Inchi: InChI=1S/C12H12/c1-2-4-8-7(3-1)9-5-10(8)12-6-11(9)12/h1-4,9-12H,5-6H2
InchiKey: NTNRCRDJOCOSMT-UHFFFAOYSA-N
Formula: C12H12
SMILES: c1ccc2c(c1)C1CC2C2CC12
Mol. weight [g/mol]: 156.22
CAS: 15577-76-1

Physical Properties

Property code	Value	Unit	Source
gf	363.78	kJ/mol	Joback Method
hf	150.59	kJ/mol	Joback Method
hfus	22.26	kJ/mol	Joback Method
hvap	44.16	kJ/mol	Joback Method
ie	8.40 ± 0.05	eV	NIST Webbook
log10ws	-3.04		Crippen Method
logp	2.907		Crippen Method
mcvol	123.600	ml/mol	McGowan Method
pc	3184.73	kPa	Joback Method
tb	508.36	K	Joback Method
tc	733.89	K	Joback Method
tf	324.08	K	Joback Method
vc	0.493	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	304.28	J/mol×K	508.36	Joback Method
cpg	321.58	J/mol×K	545.95	Joback Method
cpg	337.37	J/mol×K	583.54	Joback Method
cpg	351.82	J/mol×K	621.13	Joback Method
cpg	365.07	J/mol×K	658.71	Joback Method
cpg	377.29	J/mol×K	696.30	Joback Method
cpg	388.64	J/mol×K	733.89	Joback Method

dvisc	0.0010575	Pa×s	324.08	Joback Method
dvisc	0.0013860	Pa×s	354.79	Joback Method
dvisc	0.0017400	Pa×s	385.51	Joback Method
dvisc	0.0021122	Pa×s	416.22	Joback Method
dvisc	0.0024967	Pa×s	446.93	Joback Method
dvisc	0.0028883	Pa×s	477.65	Joback Method
dvisc	0.0032831	Pa×s	508.36	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15577761&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
ie:	Ionization energy
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