

Syn-7,14-dihydro-7,14-dimethylene-1,6:8,13-bismole

Inchi: InChI=1S/C18H16/c1-13-15-7-3-5-9-17(11-15)14(2)18-10-6-4-8-16(13)12-18/h3-10H,1-2H
InchiKey: RGWOSRBWFUXUPC-UHFFFAOYSA-N
Formula: C18H16
SMILES: C=C1C2=CC=CC=C(C2)C(=C)C2=CC=CC=C1C2
Mol. weight [g/mol]: 232.32
CAS: 109216-46-8

Physical Properties

Property code	Value	Unit	Source
gf	468.76	kJ/mol	Joback Method
hf	290.73	kJ/mol	Joback Method
hfus	22.33	kJ/mol	Joback Method
hvap	62.25	kJ/mol	Joback Method
ie	7.90	eV	NIST Webbook
ie	7.70	eV	NIST Webbook
log10ws	-5.87		Crippen Method
logp	4.738		Crippen Method
mcvol	197.500	ml/mol	McGowan Method
pc	2293.71	kPa	Joback Method
tb	688.56	K	Joback Method
tc	938.64	K	Joback Method
tf	416.52	K	Joback Method
vc	0.746	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	513.27	J/molxK	688.56	Joback Method
cpg	530.81	J/molxK	730.24	Joback Method
cpg	546.98	J/molxK	771.92	Joback Method
cpg	561.89	J/molxK	813.60	Joback Method
cpg	575.63	J/molxK	855.28	Joback Method
cpg	588.33	J/molxK	896.96	Joback Method
cpg	600.08	J/molxK	938.64	Joback Method

dvisc	0.0012230	Paxs	416.52	Joback Method
dvisc	0.0008368	Paxs	461.86	Joback Method
dvisc	0.0006128	Paxs	507.20	Joback Method
dvisc	0.0004722	Paxs	552.54	Joback Method
dvisc	0.0003786	Paxs	597.88	Joback Method
dvisc	0.0003132	Paxs	643.22	Joback Method
dvisc	0.0002656	Paxs	688.56	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C109216468&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

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

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