Benzene, 1,1'-(1,5-hexadiene-1,6-diyl)bis-

Other names: 1,6-diphenyl-1,5-hexadiene
Inchi: InChI=1S/C18H18/c1(5-11-17-13-7-3-8-14-17)2-6-12-18-15-9-4-10-16-18/h3-16H,1-2H2/
InchiKey: GXBNHFMSIXKWHZ-YDWXAUTNSA-N
Formula: C18H18
SMILES: C(=Cc1ccccc1)CCC=Cc1ccccc1
Mol. weight [g/mol]: 234.34
CAS: 4439-45-6

Physical Properties

Property code	Value	Unit	Source
gf	485.94	kJ/mol	Joback Method
hf	292.65	kJ/mol	Joback Method
hfus	30.86	kJ/mol	Joback Method
hvap	60.13	kJ/mol	Joback Method
log10ws	-5.60		Crippen Method
logp	5.193		Crippen Method
mcvol	208.360	ml/mol	McGowan Method
pc	2104.20	kPa	Joback Method
tb	672.92	K	Joback Method
tc	913.05	K	Joback Method
tf	335.30	K	Joback Method
vc	0.787	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	533.84	J/mol×K	672.92	Joback Method
cpg	552.08	J/mol×K	712.94	Joback Method
cpg	568.92	J/mol×K	752.96	Joback Method
cpg	584.48	J/mol×K	792.99	Joback Method
cpg	598.90	J/mol×K	833.01	Joback Method
cpg	612.31	J/mol×K	873.03	Joback Method
cpg	624.86	J/mol×K	913.05	Joback Method
dvisc	0.0018943	Pa×s	335.30	Joback Method

dvisc	0.0007954	Pa×s	391.57	Joback Method
dvisc	0.0004154	Pa×s	447.84	Joback Method
dvisc	0.0002508	Pa×s	504.11	Joback Method
dvisc	0.0001675	Pa×s	560.38	Joback Method
dvisc	0.0001205	Pa×s	616.65	Joback Method
dvisc	0.0000916	Pa×s	672.92	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4439456&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume