Benzene, 1,1'-(2-cyclohexen-1-ylidene)bis-

Other names: Cyclohexene, 3,3-diphenyl-
Inchi: InChI=1S/C18H18/c1-4-10-16(11-5-1)18(14-8-3-9-15-18)17-12-6-2-7-13-17/h1-2,4-8,10-1
InchiKey: UYRONKCXUIRUGJ-UHFFFAOYSA-N
Formula: C18H18
SMILES: C1=CC(c2ccccc2)(c2ccccc2)CCC1
Mol. weight [g/mol]: 234.34
CAS: 31158-25-5

Physical Properties

Property code	Value	Unit	Source
gf	374.42	kJ/mol	Joback Method
hf	185.55	kJ/mol	Joback Method
hfus	17.22	kJ/mol	Joback Method
hvap	59.78	kJ/mol	Joback Method
log10ws	-5.09		Crippen Method
logp	4.713		Crippen Method
mcvol	201.800	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
tb	683.55	K	Joback Method
tc	957.93	K	Joback Method
tf	377.50	K	Joback Method
vc	0.745	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	543.61	J/mol×K	683.55	Joback Method
cpg	565.30	J/mol×K	729.28	Joback Method
cpg	585.41	J/mol×K	775.01	Joback Method
cpg	604.24	J/mol×K	820.74	Joback Method
cpg	622.13	J/mol×K	866.47	Joback Method
cpg	639.40	J/mol×K	912.20	Joback Method
cpg	656.38	J/mol×K	957.93	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C31158255&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

Legend

cpg:	Ideal gas heat capacity
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