

4,5-diphenyl-1,3-hexadiene

Inchi:	InChI=1S/C18H18/c1-3-10-18(17-13-8-5-9-14-17)15(2)16-11-6-4-7-12-16/h3-15H,1H2,2H
InchiKey:	CCPVGOJXSGZKOT-ZDLGFXPLSA-N
Formula:	C18H18
SMILES:	C=CC=C(c1ccccc1)C(C)c1ccccc1
Mol. weight [g/mol]:	234.34

Physical Properties

Property code	Value	Unit	Source
gf	482.57	kJ/mol	Joback Method
hf	285.79	kJ/mol	Joback Method
hfus	24.55	kJ/mol	Joback Method
hvap	59.19	kJ/mol	Joback Method
log10ws	-5.40		Crippen Method
logp	5.060		Crippen Method
mcvol	208.360	ml/mol	McGowan Method
pc	2110.00	kPa	Joback Method
rinpol	1874.40		NIST Webbook
rinpol	1874.40		NIST Webbook
tb	664.88	K	Joback Method
tc	909.31	K	Joback Method
tf	309.66	K	Joback Method
vc	0.783	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	533.14	J/mol×K	664.88	Joback Method
cpg	552.05	J/mol×K	705.62	Joback Method
cpg	569.46	J/mol×K	746.36	Joback Method
cpg	585.50	J/mol×K	787.10	Joback Method
cpg	600.30	J/mol×K	827.83	Joback Method
cpg	613.98	J/mol×K	868.57	Joback Method
cpg	626.68	J/mol×K	909.31	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=R316386&Units=SI

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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