

2,4,6-triphenyl-1-hexene

Other names:	1-Hexene, 2,4,6-triphenyl
Inchi:	InChI=1S/C24H24/c1-20(22-13-7-3-8-14-22)19-24(23-15-9-4-10-16-23)18-17-21-11-5-2-
InchiKey:	VTFWGFWAVPVIAA-UHFFFAOYSA-N
Formula:	C24H24
SMILES:	<chem>C=C(CC(CCc1ccccc1)c1ccccc1)c1ccccc1</chem>
Mol. weight [g/mol]:	312.45

Physical Properties

Property code	Value	Unit	Source
gf	565.28	kJ/mol	Joback Method
hf	281.26	kJ/mol	Joback Method
hfus	33.93	kJ/mol	Joback Method
hvap	74.87	kJ/mol	Joback Method
log10ws	-7.16		Crippen Method
logp	6.506		Crippen Method
mcvol	273.440	ml/mol	McGowan Method
pc	1633.81	kPa	Joback Method
rinpol	2428.80		NIST Webbook
rinpol	2428.80		NIST Webbook
rinpol	2428.80		NIST Webbook
rinpol	2428.80		NIST Webbook
rinpol	2440.00		NIST Webbook
tb	824.68	K	Joback Method
tc	1073.54	K	Joback Method
tf	408.78	K	Joback Method
vc	1.032	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	804.06	J/molxK	824.68	Joback Method
cpg	822.81	J/molxK	866.16	Joback Method
cpg	840.03	J/molxK	907.63	Joback Method
cpg	855.88	J/molxK	949.11	Joback Method

cpg	870.52	J/mol×K	990.59	Joback Method
cpg	884.11	J/mol×K	1032.07	Joback Method
cpg	896.81	J/mol×K	1073.54	Joback Method

Sources

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=R72753&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
mvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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