

1,3,5-triphenylhexane

Inchi:	InChI=1S/C24H26/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:	SLSYKXXGNBFG EK-UHFFFAOYSA-N
Formula:	C24H26
SMILES:	CC(CC(CCc1ccccc1)c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	314.46
CAS:	17293-57-1

Physical Properties

Property code	Value	Unit	Source
gf	483.55	kJ/mol	Joback Method
hf	160.34	kJ/mol	Joback Method
hfus	32.99	kJ/mol	Joback Method
hvap	75.07	kJ/mol	Joback Method
log10ws	-7.11		Crippen Method
logp	6.597		Crippen Method
mvol	277.740	ml/mol	McGowan Method
pc	1583.49	kPa	Joback Method
rinpol	2606.60		NIST Webbook
tb	827.68	K	Joback Method
tc	1072.91	K	Joback Method
tf	409.50	K	Joback Method
vc	1.044	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.91	J/molxK	827.68	Joback Method
cpg	913.74	J/molxK	1032.04	Joback Method
cpg	899.94	J/molxK	991.16	Joback Method
cpg	885.00	J/molxK	950.29	Joback Method
cpg	868.78	J/molxK	909.42	Joback Method
cpg	851.13	J/molxK	868.55	Joback Method
cpg	926.54	J/molxK	1072.91	Joback Method
dvisc	0.0000517	Paxs	827.68	Joback Method

dvisc	0.0000702	Paxs	757.98	Joback Method
dvisc	0.0001013	Paxs	688.29	Joback Method
dvisc	0.0001588	Paxs	618.59	Joback Method
dvisc	0.0002791	Paxs	548.89	Joback Method
dvisc	0.0005778	Paxs	479.20	Joback Method
dvisc	0.0015324	Paxs	409.50	Joback Method

Sources

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=C17293571&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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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