1,2,6-triphenyl-3-hexene

Inchi: InChI=1S/C24H24/c1-4-12-21(13-5-1)14-10-11-19-24(23-17-8-3-9-18-23)20-22-15-6-2-7-
InchiKey: OIPRUWYSKMFFON-YBFXNURJSA-N
Formula: C24H24
SMILES: C(=CC(Cc1ccccc1)c1ccccc1)CCc1ccccc1
Mol. weight [g/mol]: 312.45

Physical Properties

Property code	Value	Unit	Source
gf	566.21	kJ/mol	Joback Method
hf	282.84	kJ/mol	Joback Method
hfus	36.72	kJ/mol	Joback Method
hvap	75.42	kJ/mol	Joback Method
log10ws	-7.00		Crippen Method
logp	6.202		Crippen Method
mcvol	273.440	ml/mol	McGowan Method
pc	1640.43	kPa	Joback Method
rinpol	2513.50		NIST Webbook
rinpol	2513.50		NIST Webbook
rinpol	2513.50		NIST Webbook
tb	832.28	K	Joback Method
tc	1081.71	K	Joback Method
tf	419.42	K	Joback Method
vc	1.030	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	805.16	J/mol×K	832.28	Joback Method
cpg	885.20	J/mol×K	1040.14	Joback Method
cpg	871.40	J/mol×K	998.57	Joback Method
cpg	856.67	J/mol×K	956.99	Joback Method
cpg	840.84	J/mol×K	915.42	Joback Method
cpg	823.72	J/mol×K	873.85	Joback Method
cpg	898.23	J/mol×K	1081.71	Joback Method

dvisc	0.0000492	Pa×s	832.28	Joback Method
dvisc	0.0000658	Pa×s	763.47	Joback Method
dvisc	0.0000932	Pa×s	694.66	Joback Method
dvisc	0.0001425	Pa×s	625.85	Joback Method
dvisc	0.0002421	Pa×s	557.04	Joback Method
dvisc	0.0004775	Pa×s	488.23	Joback Method
dvisc	0.0011770	Pa×s	419.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R316019&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
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