

1,6,11-trimethyltriphenylene

Inchi:	InChI=1S/C21H18/c1-13-7-9-16-17-10-8-14(2)12-20(17)21-15(3)5-4-6-18(21)19(16)11-1
InchiKey:	AXGDCLUIYAPEOP-UHFFFAOYSA-N
Formula:	C21H18
SMILES:	Cc1ccc2c(c1)c1cccc(C)c1c1cc(C)ccc21
Mol. weight [g/mol]:	270.37

Physical Properties

Property code	Value	Unit	Source
gf	510.15	kJ/mol	Joback Method
hf	275.62	kJ/mol	Joback Method
hfus	33.30	kJ/mol	Joback Method
hvap	72.85	kJ/mol	Joback Method
log10ws	-8.31		Crippen Method
logp	6.071		Crippen Method
mcvol	224.610	ml/mol	McGowan Method
pc	1987.66	kPa	Joback Method
rinpol	446.24		NIST Webbook
rinpol	446.24		NIST Webbook
rinpol	446.24		NIST Webbook
tb	788.40	K	Joback Method
tc	1036.95	K	Joback Method
tf	513.55	K	Joback Method
vc	0.870	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	623.87	J/molxK	788.40	Joback Method
cpg	639.68	J/molxK	829.83	Joback Method
cpg	654.57	J/molxK	871.25	Joback Method
cpg	668.68	J/molxK	912.68	Joback Method
cpg	682.20	J/molxK	954.10	Joback Method
cpg	695.27	J/molxK	995.53	Joback Method
cpg	708.06	J/molxK	1036.95	Joback Method

dvisc	0.0013788	Paxs	513.55	Joback Method
dvisc	0.0011437	Paxs	559.36	Joback Method
dvisc	0.0009759	Paxs	605.17	Joback Method
dvisc	0.0008516	Paxs	650.98	Joback Method
dvisc	0.0007565	Paxs	696.78	Joback Method
dvisc	0.0006819	Paxs	742.59	Joback Method
dvisc	0.0006221	Paxs	788.40	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R15436&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
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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