

[1,1':3',1''-Terphenyl]-2'-ol

Other names:	[m-Terphenyl]-2'-ol 2,6-Diphenylphenol
Inchi:	InChI=1S/C18H14O/c19-18-16(14-8-3-1-4-9-14)12-7-13-17(18)15-10-5-2-6-11-15/h1-13,
InchiKey:	ATGFTMUSEPZ NJD-UHFFFAOYSA-N
Formula:	C18H14O
SMILES:	Oc1c(-c2ccccc2)cccc1-c1ccccc1
Mol. weight [g/mol]:	246.30
CAS:	2432-11-3

Physical Properties

Property code	Value	Unit	Source
gf	273.66	kJ/mol	Joback Method
hf	105.96	kJ/mol	Joback Method
hfus	29.89	kJ/mol	Joback Method
hsub	119.10 ± 1.10	kJ/mol	NIST Webbook
hvap	76.17	kJ/mol	Joback Method
log10ws	-6.23		Crippen Method
logp	4.726		Crippen Method
mcvol	199.070	ml/mol	McGowan Method
pc	3022.28	kPa	Joback Method
tb	776.88	K	Joback Method
tc	1052.42	K	Joback Method
tf	496.12	K	Joback Method
vc	0.685	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	546.01	J/mol×K	776.88	Joback Method
cpg	561.42	J/mol×K	822.80	Joback Method
cpg	575.64	J/mol×K	868.73	Joback Method
cpg	588.90	J/mol×K	914.65	Joback Method
cpg	601.43	J/mol×K	960.58	Joback Method
cpg	613.45	J/mol×K	1006.50	Joback Method

cpg	625.18	J/mol×K	1052.42	Joback Method
dvisc	0.0002318	Paxs	496.12	Joback Method
dvisc	0.0001048	Paxs	542.91	Joback Method
dvisc	0.0000538	Paxs	589.71	Joback Method
dvisc	0.0000304	Paxs	636.50	Joback Method
dvisc	0.0000186	Paxs	683.29	Joback Method
dvisc	0.0000121	Paxs	730.09	Joback Method
dvisc	0.0000083	Paxs	776.88	Joback Method
hsubt	116.10 ± 1.10	kJ/mol	348.50	NIST Webbook

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=C2432113&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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