

4-tert-Butyl-O-phenylene diacetate

Other names:	4-tert-Butylcatechol, diacetate 4-tert-Butyl-1,2-diacetoxybenzene 2-(Acetyloxy)-4-tert-butylphenyl acetate
Inchi:	InChI=1S/C14H18O4/c1-9(15)17-12-7-6-11(14(3,4)5)8-13(12)18-10(2)16/h6-8H,1-5H3
InchiKey:	NBDHUKNVZPIOEW-UHFFFAOYSA-N
Formula:	C14H18O4
SMILES:	CC(=O)Oc1ccc(C(C)(C)C)cc1OC(C)=O
Mol. weight [g/mol]:	250.29
CAS:	80869-94-9

Physical Properties

Property code	Value	Unit	Source
gf	-304.85	kJ/mol	Joback Method
hf	-617.05	kJ/mol	Joback Method
hfus	23.44	kJ/mol	Joback Method
hvap	67.37	kJ/mol	Joback Method
log10ws	-3.41		Crippen Method
logp	2.835		Crippen Method
mcvol	199.240	ml/mol	McGowan Method
pc	2163.33	kPa	Joback Method
rinsol	1663.50		NIST Webbook
tb	705.71	K	Joback Method
tc	922.82	K	Joback Method
tf	445.74	K	Joback Method
vc	0.749	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	541.74	J/molxK	705.71	Joback Method
cpg	556.41	J/molxK	741.90	Joback Method
cpg	570.09	J/molxK	778.08	Joback Method
cpg	582.79	J/molxK	814.27	Joback Method
cpg	594.55	J/molxK	850.45	Joback Method

cpg	605.37	J/molxK	886.64	Joback Method
cpg	615.29	J/molxK	922.82	Joback Method
dvisc	0.0008100	Paxs	445.74	Joback Method
dvisc	0.0004893	Paxs	489.07	Joback Method
dvisc	0.0003208	Paxs	532.40	Joback Method
dvisc	0.0002241	Paxs	575.73	Joback Method
dvisc	0.0001647	Paxs	619.05	Joback Method
dvisc	0.0001259	Paxs	662.38	Joback Method
dvisc	0.0000995	Paxs	705.71	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C80869949&Units=SI

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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