

Diphenyl ether, 3,4,4'-tris-(methoxycarbonyl)-3'-methyl

Inchi: InChI=1S/C19H18O7/c1-11-9-12(5-7-14(11)17(20)23-2)26-13-6-8-15(18(21)24-3)16(10-12)
InchiKey: WOAHMADQCWPWEN-UHFFFAOYSA-N
Formula: C19H18O7
SMILES: COC(=O)c1ccc(Oc2ccc(C(=O)OC)c(C(=O)OC)c2)cc1C
Mol. weight [g/mol]: 358.34

Physical Properties

Property code	Value	Unit	Source
gf	-511.36	kJ/mol	Joback Method
hf	-874.93	kJ/mol	Joback Method
hfus	41.04	kJ/mol	Joback Method
hvap	94.97	kJ/mol	Joback Method
log10ws	-4.31		Crippen Method
logp	3.147		Crippen Method
mcvol	259.240	ml/mol	McGowan Method
pc	1859.51	kPa	Joback Method
rinpol	2602.00		NIST Webbook
rinpol	2595.00		NIST Webbook
rinpol	2609.00		NIST Webbook
rinpol	2595.00		NIST Webbook
tb	958.69	K	Joback Method
tc	1191.32	K	Joback Method
tf	645.52	K	Joback Method
vc	0.974	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	781.04	J/mol×K	958.69	Joback Method
cpg	813.29	J/mol×K	1152.55	Joback Method
cpg	810.22	J/mol×K	1113.78	Joback Method
cpg	805.43	J/mol×K	1075.01	Joback Method
cpg	798.96	J/mol×K	1036.23	Joback Method
cpg	790.82	J/mol×K	997.46	Joback Method

cpg	814.61	J/mol×K	1191.32	Joback Method
dvisc	0.0000370	Pa×s	958.69	Joback Method
dvisc	0.0000448	Pa×s	906.50	Joback Method
dvisc	0.0000555	Pa×s	854.30	Joback Method
dvisc	0.0000708	Pa×s	802.11	Joback Method
dvisc	0.0000934	Pa×s	749.91	Joback Method
dvisc	0.0001283	Pa×s	697.72	Joback Method
dvisc	0.0001857	Pa×s	645.52	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R530344&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
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
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

Latest version available from:

<https://www.chemeo.com/cid/17-085-9/Diphenyl-ether-3-4-4-tris-methoxycarbonyl-3-methyl.pdf>

Generated by Cheméo on 2025-12-05 12:19:11.375483958 +0000 UTC m=+4685348.905524613.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.