

2-Methoxyethyl 4-tert-butyl benzoate

Inchi:	InChI=1S/C14H20O3/c1-14(2,3)12-7-5-11(6-8-12)13(15)17-10-9-16-4/h5-8H,9-10H2,1-4H
InchiKey:	JPGBDPOJLLGSQH-UHFFFAOYSA-N
Formula:	C14H20O3
SMILES:	COCCOC(=O)c1ccc(C(C)(C)C)cc1
Mol. weight [g/mol]:	236.31

Physical Properties

Property code	Value	Unit	Source
gf	-166.30	kJ/mol	Joback Method
hf	-493.00	kJ/mol	Joback Method
hfus	22.23	kJ/mol	Joback Method
hvap	59.97	kJ/mol	Joback Method
log10ws	-2.95		Crippen Method
logp	2.787		Crippen Method
mvol	197.670	ml/mol	McGowan Method
pc	2069.88	kPa	Joback Method
rinpol	1700.00		NIST Webbook
rinpol	1700.00		NIST Webbook
tb	646.86	K	Joback Method
tc	856.76	K	Joback Method
tf	383.29	K	Joback Method
vc	0.743	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.93	J/molxK	646.86	Joback Method
cpg	540.39	J/molxK	681.84	Joback Method
cpg	555.85	J/molxK	716.83	Joback Method
cpg	570.33	J/molxK	751.81	Joback Method
cpg	583.86	J/molxK	786.80	Joback Method
cpg	596.48	J/molxK	821.78	Joback Method
cpg	608.20	J/molxK	856.76	Joback Method
dvisc	0.0012306	Paxs	383.29	Joback Method

dvisc	0.0006566	Paxs	427.22	Joback Method
dvisc	0.0003939	Paxs	471.15	Joback Method
dvisc	0.0002578	Paxs	515.07	Joback Method
dvisc	0.0001803	Paxs	559.00	Joback Method
dvisc	0.0001329	Paxs	602.93	Joback Method
dvisc	0.0001021	Paxs	646.86	Joback Method

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=R540613&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	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/42-516-2/2-Methoxyethyl-4-tert-butyl-benzoate.pdf>

Generated by Cheméo on 2024-04-24 14:54:26.519236696 +0000 UTC m=+16259715.439814009.

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