

4-Butylbenzoic acid, 4-methoxy-2-methylbutyl ester

Inchi:	InChI=1S/C17H26O3/c1-4-5-6-15-7-9-16(10-8-15)17(18)20-13-14(2)11-12-19-3/h7-10,14
InchiKey:	MAPCYJGHNRLAOA-UHFFFAOYSA-N
Formula:	C17H26O3
SMILES:	CCCCc1ccc(C(=O)OCC(C)CCOC)cc1
Mol. weight [g/mol]:	278.39

Physical Properties

Property code	Value	Unit	Source
gf	-146.32	kJ/mol	Joback Method
hf	-551.45	kJ/mol	Joback Method
hfus	33.89	kJ/mol	Joback Method
hvap	67.55	kJ/mol	Joback Method
log10ws	-4.29		Crippen Method
logp	3.859		Crippen Method
mcvol	239.940	ml/mol	McGowan Method
pc	1603.85	kPa	Joback Method
rinsol	2139.00		NIST Webbook
tb	718.29	K	Joback Method
tc	914.63	K	Joback Method
tf	399.68	K	Joback Method
vc	0.915	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	684.29	J/molxK	718.29	Joback Method
cpg	760.77	J/molxK	881.91	Joback Method
cpg	747.40	J/molxK	849.18	Joback Method
cpg	733.09	J/molxK	816.46	Joback Method
cpg	717.81	J/molxK	783.74	Joback Method
cpg	701.55	J/molxK	751.01	Joback Method
cpg	773.21	J/molxK	914.63	Joback Method
dvisc	0.0000770	Paxs	718.29	Joback Method
dvisc	0.0001008	Paxs	665.19	Joback Method

dvisc	0.0001382	Paxs	612.09	Joback Method
dvisc	0.0002012	Paxs	558.99	Joback Method
dvisc	0.0003171	Paxs	505.88	Joback Method
dvisc	0.0005559	Paxs	452.78	Joback Method
dvisc	0.0011313	Paxs	399.68	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=U354320&Units=SI

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
m_{cvol}:	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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