

4-Butylbenzoic acid, 3,5-dimethylphenyl ester

Inchi:	InChI=1S/C19H22O2/c1-4-5-6-16-7-9-17(10-8-16)19(20)21-18-12-14(2)11-15(3)13-18/h7
InchiKey:	XASPIHMPNXWQD-UHFFFAOYSA-N
Formula:	C19H22O2
SMILES:	CCCCc1ccc(C(=O)Oc2cc(C)cc(C)c2)cc1
Mol. weight [g/mol]:	282.38

Physical Properties

Property code	Value	Unit	Source
gf	71.11	kJ/mol	Joback Method
hf	-241.64	kJ/mol	Joback Method
hfus	34.67	kJ/mol	Joback Method
hvap	73.58	kJ/mol	Joback Method
log10ws	-6.15		Crippen Method
logp	4.865		Crippen Method
mcvol	238.490	ml/mol	McGowan Method
pc	1766.90	kPa	Joback Method
rinpol	2291.00		NIST Webbook
rinpol	2291.00		NIST Webbook
tb	778.71	K	Joback Method
tc	1002.35	K	Joback Method
tf	466.45	K	Joback Method
vc	0.907	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	679.82	J/mol×K	778.71	Joback Method
cpg	750.66	J/mol×K	965.07	Joback Method
cpg	738.72	J/mol×K	927.80	Joback Method
cpg	725.70	J/mol×K	890.53	Joback Method
cpg	711.58	J/mol×K	853.26	Joback Method
cpg	696.29	J/mol×K	815.98	Joback Method
cpg	761.56	J/mol×K	1002.35	Joback Method
dvisc	0.0000874	Pa×s	778.71	Joback Method

dvisc	0.0001088	Pa×s	726.67	Joback Method
dvisc	0.0001400	Pa×s	674.62	Joback Method
dvisc	0.0001881	Pa×s	622.58	Joback Method
dvisc	0.0002666	Pa×s	570.54	Joback Method
dvisc	0.0004053	Pa×s	518.49	Joback Method
dvisc	0.0006765	Pa×s	466.45	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=U307505&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
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/13-515-5/4-Butylbenzoic-acid-3-5-dimethylphenyl-ester.pdf>

Generated by Cheméo on 2025-12-23 00:48:58.505945383 +0000 UTC m=+6199136.035986036.

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