

Ethyl 4-t-butylbenzoate

Other names:	Ethyl 4-tert-butylbenzoate Benzoic acid, 4-(1,1-dimethylethyl)-, ethyl ester ethyl 4-(1,1-dimethylethyl)benzoate
Inchi:	InChI=1S/C13H18O2/c1-5-15-12(14)10-6-8-11(9-7-10)13(2,3)4/h6-9H,5H2,1-4H3
InchiKey:	LIQWHXBLFOERRD-UHFFFAOYSA-N
Formula:	C13H18O2
SMILES:	CCOC(=O)c1ccc(C(C)(C)C)cc1
Mol. weight [g/mol]:	206.28
CAS:	5406-57-5

Physical Properties

Property code	Value	Unit	Source
gf	-69.72	kJ/mol	Joback Method
hf	-340.14	kJ/mol	Joback Method
hfus	18.45	kJ/mol	Joback Method
hvap	55.33	kJ/mol	Joback Method
log10ws	-3.45		Crippen Method
logp	3.161		Crippen Method
mcvol	177.710	ml/mol	McGowan Method
pc	2300.32	kPa	Joback Method
rinpol	1486.00		NIST Webbook
rinpol	1486.00		NIST Webbook
tb	601.56	K	Joback Method
tc	817.36	K	Joback Method
tf	349.79	K	Joback Method
vc	0.668	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	446.22	J/mol×K	601.56	Joback Method
cpg	462.62	J/mol×K	637.53	Joback Method
cpg	477.98	J/mol×K	673.49	Joback Method
cpg	492.35	J/mol×K	709.46	Joback Method

cpg	505.78	J/mol×K	745.43	Joback Method
cpg	518.30	J/mol×K	781.39	Joback Method
cpg	529.96	J/mol×K	817.36	Joback Method
dvisc	0.0018655	Pa×s	349.79	Joback Method
dvisc	0.0009730	Pa×s	391.75	Joback Method
dvisc	0.0005756	Pa×s	433.71	Joback Method
dvisc	0.0003736	Pa×s	475.67	Joback Method
dvisc	0.0002601	Pa×s	517.64	Joback Method
dvisc	0.0001911	Pa×s	559.60	Joback Method
dvisc	0.0001467	Pa×s	601.56	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
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=C5406575&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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