

2-Chlorobenzoic acid, 3-methylbutyl-2 ester

Other names:	Benzoic acid, 2-chloro, 1,2-dimethylpropyl ester
Inchi:	InChI=1S/C12H15ClO2/c1-8(2)9(3)15-12(14)10-6-4-5-7-11(10)13/h4-9H,1-3H3
InchiKey:	GULZYXNRPUDADC-UHFFFAOYSA-N
Formula:	C12H15ClO2
SMILES:	CC(C)C(C)OC(=O)c1ccccc1Cl
Mol. weight [g/mol]:	226.70

Physical Properties

Property code	Value	Unit	Source
gf	-97.79	kJ/mol	Joback Method
hf	-337.05	kJ/mol	Joback Method
hfus	20.43	kJ/mol	Joback Method
hvap	58.01	kJ/mol	Joback Method
log10ws	-3.94		Crippen Method
logp	3.541		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2429.05	kPa	Joback Method
rinpol	1570.00		NIST Webbook
rinpol	1521.00		NIST Webbook
rinpol	1529.00		NIST Webbook
rinpol	1519.00		NIST Webbook
rinpol	1538.00		NIST Webbook
rinpol	1570.00		NIST Webbook
rinpol	1540.00		NIST Webbook
rinpol	1530.00		NIST Webbook
rinpol	1521.00		NIST Webbook
ripol	2115.00		NIST Webbook
ripol	2124.00		NIST Webbook
ripol	2084.00		NIST Webbook
ripol	2089.00		NIST Webbook
ripol	2124.00		NIST Webbook
ripol	2122.00		NIST Webbook
ripol	2098.00		NIST Webbook
ripol	2084.00		NIST Webbook
tb	618.46	K	Joback Method
tc	838.01	K	Joback Method
tf	336.02	K	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.24	J/molxK	618.46	Joback Method
cpg	436.93	J/molxK	655.05	Joback Method
cpg	450.70	J/molxK	691.64	Joback Method
cpg	463.59	J/molxK	728.23	Joback Method
cpg	475.62	J/molxK	764.82	Joback Method
cpg	486.79	J/molxK	801.42	Joback Method
cpg	497.15	J/molxK	838.01	Joback Method
dvisc	0.0024032	Paxs	336.02	Joback Method
dvisc	0.0011407	Paxs	383.09	Joback Method
dvisc	0.0006373	Paxs	430.17	Joback Method
dvisc	0.0003994	Paxs	477.24	Joback Method
dvisc	0.0002722	Paxs	524.31	Joback Method
dvisc	0.0001976	Paxs	571.39	Joback Method
dvisc	0.0001507	Paxs	618.46	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U360519&Units=SI
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

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

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
p_c:	Critical Pressure
r_{inpol}:	Non-polar retention indices
r_{ipol}:	Polar retention indices
t_b:	Normal Boiling Point Temperature
t_c:	Critical Temperature
t_f:	Normal melting (fusion) point
v_c:	Critical Volume

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