

3-Bromobenzoic acid, 3-methylbut-2-yl ester

Inchi:	InChI=1S/C12H15BrO2/c1-8(2)9(3)15-12(14)10-5-4-6-11(13)7-10/h4-9H,1-3H3
InchiKey:	ZFQKCOCHRZEJJJ-UHFFFAOYSA-N
Formula:	C12H15BrO2
SMILES:	CC(C)C(C)OC(=O)c1cccc(Br)c1
Mol. weight [g/mol]:	271.15

Physical Properties

Property code	Value	Unit	Source
gf	-71.54	kJ/mol	Joback Method
hf	-294.98	kJ/mol	Joback Method
hfus	21.51	kJ/mol	Joback Method
hvap	60.06	kJ/mol	Joback Method
log10ws	-4.42		Crippen Method
logp	3.650		Crippen Method
mcvol	181.120	ml/mol	McGowan Method
pc	2704.22	kPa	Joback Method
rinpola	1682.00		NIST Webbook
tb	647.19	K	Joback Method
tc	875.08	K	Joback Method
tf	365.90	K	Joback Method
vc	0.673	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	434.91	J/molxK	647.19	Joback Method
cpg	449.28	J/molxK	685.17	Joback Method
cpg	462.69	J/molxK	723.15	Joback Method
cpg	475.16	J/molxK	761.14	Joback Method
cpg	486.75	J/molxK	799.12	Joback Method
cpg	497.48	J/molxK	837.10	Joback Method
cpg	507.38	J/molxK	875.08	Joback Method
dvisc	0.0019092	Paxs	365.90	Joback Method
dvisc	0.0009792	Paxs	412.78	Joback Method

dvisc	0.0005755	Paxs	459.66	Joback Method
dvisc	0.0003732	Paxs	506.55	Joback Method
dvisc	0.0002604	Paxs	553.43	Joback Method
dvisc	0.0001922	Paxs	600.31	Joback Method
dvisc	0.0001483	Paxs	647.19	Joback Method

Sources

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=U355180&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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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