

2-((3-Methylbutan-2-yloxy)carbonyl)benzoic acid

Inchi:	InChI=1S/C13H16O4/c1-8(2)9(3)17-13(16)11-7-5-4-6-10(11)12(14)15/h4-9H,1-3H3,(H,1
InchiKey:	AJRMLQSJNSDUHW-UHFFFAOYSA-N
Formula:	C13H16O4
SMILES:	CC(C)C(C)OC(=O)c1ccccc1C(=O)O
Mol. weight [g/mol]:	236.26
CAS:	198284-10-5

Physical Properties

Property code	Value	Unit	Source
gf	-343.18	kJ/mol	Joback Method
hf	-606.76	kJ/mol	Joback Method
hfus	24.51	kJ/mol	Joback Method
hvap	79.28	kJ/mol	Joback Method
log10ws	-3.32		Crippen Method
logp	2.586		Crippen Method
mcvol	185.150	ml/mol	McGowan Method
pc	2676.31	kPa	Joback Method
rinpol	1839.00		NIST Webbook
rinpol	1839.00		NIST Webbook
tb	749.96	K	Joback Method
tc	955.69	K	Joback Method
tf	428.12	K	Joback Method
vc	0.693	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	516.17	J/molxK	749.96	Joback Method
cpg	567.52	J/molxK	921.40	Joback Method
cpg	558.81	J/molxK	887.11	Joback Method
cpg	549.34	J/molxK	852.83	Joback Method
cpg	539.09	J/molxK	818.54	Joback Method
cpg	528.04	J/molxK	784.25	Joback Method
cpg	575.49	J/molxK	955.69	Joback Method

dvisc	0.0000301	Paxs	749.96	Joback Method
dvisc	0.0000450	Paxs	696.32	Joback Method
dvisc	0.0000721	Paxs	642.68	Joback Method
dvisc	0.0001257	Paxs	589.04	Joback Method
dvisc	0.0002452	Paxs	535.40	Joback Method
dvisc	0.0005548	Paxs	481.76	Joback Method
dvisc	0.0015402	Paxs	428.12	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C198284105&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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