

p-Methacryloyloxybenzoic acid

Inchi:	InChI=1S/C11H10O4/c1-7(2)11(14)15-9-5-3-8(4-6-9)10(12)13/h3-6H,1H2,2H3,(H,12,13)
InchiKey:	DNCFPDURLPJGKX-UHFFFAOYSA-N
Formula:	C11H10O4
SMILES:	C=C(C)C(=O)Oc1ccc(C(=O)O)cc1
Mol. weight [g/mol]:	206.19
CAS:	15721-10-5

Physical Properties

Property code	Value	Unit	Source
chs	-4960.60 ± 1.70	kJ/mol	NIST Webbook
gf	-275.85	kJ/mol	Joback Method
hf	-439.28	kJ/mol	Joback Method
hfs	-798.00 ± 2.00	kJ/mol	NIST Webbook
hfus	23.78	kJ/mol	Joback Method
hvap	75.01	kJ/mol	Joback Method
log10ws	-2.54		Crippen Method
logp	1.866		Crippen Method
mcvol	152.670	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
ss	284.10	J/mol×K	NIST Webbook
tb	701.64	K	Joback Method
tc	911.61	K	Joback Method
tf	419.86	K	Joback Method
tt	455.00 ± 1.00	K	NIST Webbook
vc	0.575	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	406.94	J/mol×K	771.63	Joback Method
cpg	415.49	J/mol×K	806.62	Joback Method
cpg	423.39	J/mol×K	841.62	Joback Method
cpg	430.67	J/mol×K	876.61	Joback Method
cpg	387.87	J/mol×K	701.64	Joback Method

cpg	397.74	J/mol×K	736.63	Joback Method
cpg	437.35	J/mol×K	911.61	Joback Method
cps	257.90	J/mol×K	298.15	NIST Webbook
hfust	34.00	kJ/mol	455.00	NIST Webbook
hsubt	34.00 ± 1.40	kJ/mol	455.00	NIST Webbook
sfust	75.00	J/mol×K	455.00	NIST Webbook

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=C15721105&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

chs:	Standard solid enthalpy of combustion
cpg:	Ideal gas heat capacity
cps:	Solid phase heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsubt:	Enthalpy of sublimation at a given temperature
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
sfust:	Entropy of fusion at a given temperature
ss:	Solid phase molar entropy at standard conditions
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature
vc:	Critical Volume

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