

Anthranilic acid, n-glycoloyl-n-methyl-

Inchi:	InChI=1S/C10H11NO4/c1-11(9(13)6-12)8-5-3-2-4-7(8)10(14)15/h2-5,12H,6H2,1H3,(H,14)
InchiKey:	SPDMHQSMCGQLDG-UHFFFAOYSA-N
Formula:	C10H11NO4
SMILES:	CN(C(=O)CO)c1ccccc1C(=O)O
Mol. weight [g/mol]:	209.20
CAS:	116295-99-9

Physical Properties

Property code	Value	Unit	Source
gf	-284.60	kJ/mol	Joback Method
hf	-486.76	kJ/mol	Joback Method
hfus	29.70	kJ/mol	Joback Method
hvap	89.68	kJ/mol	Joback Method
log10ws	-0.90		Crippen Method
logp	0.340		Crippen Method
mcvol	152.860	ml/mol	McGowan Method
pc	4140.93	kPa	Joback Method
tb	764.40	K	Joback Method
tc	961.27	K	Joback Method
tf	495.37	K	Joback Method
vc	0.555	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	419.31	J/molxK	764.40	Joback Method
cpg	427.58	J/molxK	797.21	Joback Method
cpg	435.27	J/molxK	830.02	Joback Method
cpg	442.42	J/molxK	862.84	Joback Method
cpg	449.05	J/molxK	895.65	Joback Method
cpg	455.20	J/molxK	928.46	Joback Method
cpg	460.90	J/molxK	961.27	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116295999&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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