

Glycine, N-(phenylacetyl)-, methyl ester

Other names:	Methyl N-(phenylacetyl)glycinate N-Phenylacetylglycine methyl ester Phenaceturic acid, methyl ester Phenylacetylglycine, methyl ester
Inchi:	InChI=1S/C11H13NO3/c1-15-11(14)8-12-10(13)7-9-5-3-2-4-6-9/h2-6H,7-8H2,1H3,(H,12,
InchiKey:	VISLHUSQBAQEBB-UHFFFAOYSA-N
Formula:	C11H13NO3
SMILES:	COC(=O)CNC(=O)Cc1ccccc1
Mol. weight [g/mol]:	207.23
CAS:	5259-87-0

Physical Properties

Property code	Value	Unit	Source
gf	-119.30	kJ/mol	Joback Method
hf	-337.75	kJ/mol	Joback Method
hfus	27.77	kJ/mol	Joback Method
hvap	64.69	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	0.518		Crippen Method
mcvol	161.080	ml/mol	McGowan Method
pc	3015.64	kPa	Joback Method
rinpol	1694.00		NIST Webbook
rinpol	1767.70		NIST Webbook
tb	658.09	K	Joback Method
tc	874.19	K	Joback Method
tf	414.90	K	Joback Method
vc	0.609	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	412.45	J/mol×K	658.09	Joback Method
cpg	425.29	J/mol×K	694.11	Joback Method
cpg	437.25	J/mol×K	730.12	Joback Method

cpg	448.38	J/mol×K	766.14	Joback Method
cpg	458.69	J/mol×K	802.16	Joback Method
cpg	468.20	J/mol×K	838.18	Joback Method
cpg	476.94	J/mol×K	874.19	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=C5259870&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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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