

Benzeneacetamide, .alpha.-phenyl-

Inchi:	InChI=1S/C14H13NO/c15-14(16)13(11-7-3-1-4-8-11)12-9-5-2-6-10-12/h1-10,13H,(H2,15
InchiKey:	ZXQVXEAZKZFEEP-UHFFFAOYSA-N
Formula:	C14H13NO
SMILES:	NC(=O)C(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	211.26

Physical Properties

Property code	Value	Unit	Source
hf	-49.65	kJ/mol	Cheméo Relay (1.0)
hfus	23.37	kJ/mol	Joback Method
hvap	63.70	kJ/mol	Cheméo Relay (1.0)
ie	8.55	eV	Cheméo Relay (1.0)
log10ws	-3.34		Cheméo Relay (1.0)
logp	2.304		Crippen Method
mcvol	172.150	ml/mol	McGowan Method
tb	588.77	K	Cheméo Relay (1.0)
tf	427.73	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	450.76	J/mol×K	699.04	Joback Method
cpg	465.62	J/mol×K	741.95	Joback Method
cpg	479.13	J/mol×K	784.86	Joback Method
cpg	491.40	J/mol×K	827.76	Joback Method
cpg	502.52	J/mol×K	870.67	Joback Method
cpg	512.59	J/mol×K	913.58	Joback Method
cpg	521.71	J/mol×K	956.49	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4695130&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

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