

Benzamide, N-benzoyl-

Other names:	Alpha-benzil monoxime Benzoic acid, imide Dibenzamide Dibenzimide Dibenzoylamine dibenzamid
Inchi:	InChI=1S/C14H11NO2/c16-13(11-7-3-1-4-8-11)15-14(17)12-9-5-2-6-10-12/h1-10H,(H,15
InchiKey:	ZHDORMMMHAKXTPT-UHFFFAOYSA-N
Formula:	C14H11NO2
SMILES:	O=C(NC(=O)c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	225.24
CAS:	614-28-8

Physical Properties

Property code	Value	Unit	Source
chs	-6836.39	kJ/mol	NIST Webbook
gf	123.37	kJ/mol	Joback Method
hf	-30.92	kJ/mol	Joback Method
hfus	28.40	kJ/mol	Joback Method
hvap	71.24	kJ/mol	Joback Method
log10ws	-2.27		Aqueous Solubility Prediction Method
logp	2.257		Crippen Method
mcvol	173.720	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
tb	730.99	K	Joback Method
tc	980.09	K	Joback Method
tf	452.90	K	Joback Method
vc	0.650	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	454.36	J/mol×K	730.99	Joback Method

cpg	467.37	J/mol×K	772.51	Joback Method
cpg	479.18	J/mol×K	814.02	Joback Method
cpg	489.86	J/mol×K	855.54	Joback Method
cpg	499.50	J/mol×K	897.06	Joback Method
cpg	508.19	J/mol×K	938.58	Joback Method
cpg	516.01	J/mol×K	980.09	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C614288&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa

Legend

chs:	Standard solid enthalpy of combustion
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
mccvol:	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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