

2,5-DIAMINOBENZOPHENONE

Other names:	(2,5-Diaminophenyl)(phenyl)methanone Benzophenone, 2,5-diamino Methanone, (2,5-diaminophenyl)phenyl-
Inchi:	InChI=1S/C13H12N2O/c14-10-6-7-12(15)11(8-10)13(16)9-4-2-1-3-5-9/h1-8H,14-15H2
InchiKey:	WJWKTVHKQDEXEQ-UHFFFAOYSA-N
Formula:	C13H12N2O
SMILES:	Nc1ccc(N)c(C(=O)c2ccccc2)c1
Mol. weight [g/mol]:	212.25

Physical Properties

Property code	Value	Unit	Source
hf	45.84	kJ/mol	Cheméo Relay (1.0)
hfus	28.72	kJ/mol	Joback Method
hvap	103.88	kJ/mol	Cheméo Relay (1.0)
ie	7.70	eV	Cheméo Relay (1.0)
log10ws	-3.00		Cheméo Relay (1.0)
logp	2.082		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	3642.13	kPa	Joback Method
rinpol	2198.00		NIST Webbook
tb	651.64	K	Cheméo Relay (1.0)
tc	957.37	K	Cheméo Relay (1.0)
tf	416.22	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	452.40	J/mol×K	759.09	Joback Method
cpg	464.90	J/mol×K	803.03	Joback Method
cpg	476.24	J/mol×K	846.97	Joback Method
cpg	486.50	J/mol×K	890.91	Joback Method
cpg	495.77	J/mol×K	934.85	Joback Method
cpg	504.11	J/mol×K	978.79	Joback Method
cpg	511.62	J/mol×K	1022.73	Joback Method

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18330944&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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