Benzoic acid, 2-phenylhydrazide

Other names: Benzoic acid N2-phenylhydrazide
«beta»-(Benzoyl)phenylhydrazine
Benzoic acid, phenyl hydrazide
N-Benzoyl-N'-phenylhydrazine
1-Benzoyl-2-phenylhydrazine
Benzoic acid phenylhydrazone
N'-Phenylbenzohydrazide
N'-Phenylbenzoylhydrazide
Benzoyl 2-phenylhydrazide
Benzoic hydrazide, N(«beta»)-phenyl-
Benzoic acid, N'-phenylhydrazide
2'-Phenylbenzohydrazide
N-Anilinobenzamide
NSC 239394

Inchi: InChI=1S/C13H12N2O/c16-13(11-7-3-1-4-8-11)15-14-12-9-5-2-6-10-12/h1-10,14H,(H,15

InchiKey: CKLPECFHCLIYKN-UHFFFAOYSA-N

Formula: C13H12N2O

SMILES: O=C(NNc1ccccc1)c1ccccc1

Mol. weight [g/mol]:   212.25

CAS: 532-96-7

Physical Properties

Property code	Value	Unit	Source
gf	333.26	kJ/mol	Joback Method
hf	155.77	kJ/mol	Joback Method
hfus	29.30	kJ/mol	Joback Method
hvap	68.70	kJ/mol	Joback Method
log10ws	-3.63		Crippen Method
logp	2.443		Crippen Method
mcvol	168.040	ml/mol	McGowan Method
pc	3399.94	kPa	Joback Method
tb	704.41	K	Joback Method
tc	950.32	K	Joback Method
tf	444.36	K	Joback Method
vc	0.624	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	440.45	J/mol×K	704.41	Joback Method
cpg	454.21	J/mol×K	745.39	Joback Method
cpg	466.76	J/mol×K	786.38	Joback Method
cpg	478.18	J/mol×K	827.36	Joback Method
cpg	488.54	J/mol×K	868.35	Joback Method
cpg	497.95	J/mol×K	909.33	Joback Method
cpg	506.48	J/mol×K	950.32	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=C532967&Units=SI

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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