

Hydrazinecarboxamide, 2-phenyl-

Other names: Hydrazinecarboxamide, 2-phenyl-
Semicarbazide, 1-phenyl-
Carbaphen
Cryogenine
Cryogenine (pharmaceutical)
Febrimin
Phenicarbazid
Phenygenine
Phenylsemicarbazide
1-Carbamoyl-2-phenylhydrazine
1-Carbamyl-2-phenylhydrazine
1-Phenylsemicarbazide
Carbamic acid, 2-phenylhydrazide
Hydrazine, 1-carbamoyl-2-phenyl-
Kryogenin
1-Phenylhydrazinecarboxamide
2-Phenylhydrazide carbamic acid
2-Phenylhydrazinecarboxamide
Fenylsemikarbazid
NSC 2763

Inchi: InChI=1S/C7H9N3O/c8-7(11)10-9-6-4-2-1-3-5-6/h1-5,9H,(H3,8,10,11)

InchiKey: AVKHCKXGKPAGEI-UHFFFAOYSA-N

Formula: C7H9N3O

SMILES: NC(=O)NNc1ccccc1

Mol. weight [g/mol]: 151.17

Physical Properties

Property code	Value	Unit	Source
hf	-81.40	kJ/mol	Cheméo Relay (1.0)
hfus	24.92	kJ/mol	Joback Method
hvap	88.55	kJ/mol	Cheméo Relay (1.0)
ie	8.16	eV	Cheméo Relay (1.0)
log10ws	-1.82		Cheméo Relay (1.0)
logp	0.682		Crippen Method
mcvol	117.240	ml/mol	McGowan Method
tb	556.89	K	Cheméo Relay (1.0)
tf	409.57	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	285.95	J/mol×K	612.98	Joback Method
cpg	296.72	J/mol×K	652.08	Joback Method
cpg	306.66	J/mol×K	691.17	Joback Method
cpg	315.80	J/mol×K	730.27	Joback Method
cpg	324.19	J/mol×K	769.36	Joback Method
cpg	331.88	J/mol×K	808.46	Joback Method
cpg	338.89	J/mol×K	847.56	Joback Method

Sources

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):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103037&Units=SI

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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