

1-Formyl-2-phenylhydrazine

Other names:	Hydrazine, 1-formyl-2-phenyl- Hydrazinecarboxaldehyde, 2-phenyl- N'-Formyl-N-phenylhydrazine 1-Formyl-2-phenylhydrazine Fenylhydrazid kyseliny mravenci N-Formylfenylhydrazin 2-Formyl-1-phenylhydrazine NSC 122444 NSC 406126
Inchi:	InChI=1S/C7H8N2O/c10-6-8-9-7-4-2-1-3-5-7/h1-6,9H,(H,8,10)
InchiKey:	QIWokeQEGoOGGH-UHFFFAOYSA-N
Formula:	C7H8N2O
SMILES:	O=CNc1ccccc1
Mol. weight [g/mol]:	136.15

Physical Properties

Property code	Value	Unit	Source
hf	2.05	kJ/mol	Cheméo Relay (1.0)
hfus	20.41	kJ/mol	Joback Method
hvap	82.02	kJ/mol	Cheméo Relay (1.0)
ie	8.20	eV	Cheméo Relay (1.0)
log10ws	-1.03		Cheméo Relay (1.0)
logp	0.760		Crippen Method
mcvol	107.260	ml/mol	McGowan Method
pc	4697.74	kPa	Joback Method
tb	560.02	K	Cheméo Relay (1.0)
tc	816.21	K	Cheméo Relay (1.0)
tf	353.60	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	236.07	J/mol×K	535.24	Joback Method
cpg	246.91	J/mol×K	572.08	Joback Method

cpg	257.00	J/mol×K	608.93	Joback Method
cpg	266.36	J/mol×K	645.77	Joback Method
cpg	275.04	J/mol×K	682.61	Joback Method
cpg	283.06	J/mol×K	719.46	Joback Method
cpg	290.47	J/mol×K	756.30	Joback Method

Sources

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=C622844&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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