

Benzoic acid, hydrazide

Other names:	Benzhydrazide Benzohydrazide Benzohydrazine Benzoic hydrazide Benzoyl hydrazide Benzoylhydrazine Hydrazine, benzoyl- NSC 644 Hydrazid kyseliny benzoove Benzenecarboxylic acid hydrazide N-Aminobenzamide
Inchi:	InChI=1S/C7H8N2O/c8-9-7(10)6-4-2-1-3-5-6/h1-5H,8H2,(H,9,10)
InchiKey:	WARCRYXKINZHGQ-UHFFFAOYSA-N
Formula:	C7H8N2O
SMILES:	<chem>NNC(=O)c1ccccc1</chem>
Mol. weight [g/mol]:	136.15
CAS:	613-94-5

Physical Properties

Property code	Value	Unit	Source
gf	147.39	kJ/mol	Joback Method
hf	23.40	kJ/mol	Joback Method
hfus	19.82	kJ/mol	Joback Method
hvap	57.27	kJ/mol	Joback Method
log10ws	-1.82		Crippen Method
logp	0.290		Crippen Method
mcvol	107.260	ml/mol	McGowan Method
pc	4917.69	kPa	Joback Method
rinpol	1205.00		NIST Webbook
tb	562.81	K	Joback Method
tc	799.09	K	Joback Method
tf	380.92	K	Joback Method
vc	0.390	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.67	J/mol×K	562.81	Joback Method
cpg	253.47	J/mol×K	602.19	Joback Method
cpg	263.46	J/mol×K	641.57	Joback Method
cpg	272.68	J/mol×K	680.95	Joback Method
cpg	281.17	J/mol×K	720.33	Joback Method
cpg	288.96	J/mol×K	759.71	Joback Method
cpg	296.09	J/mol×K	799.09	Joback Method
hfust	25.70	kJ/mol	388.20	NIST Webbook

Sources

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=C613945&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
hfust:	Enthalpy of fusion at a given temperature
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

vc: Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/34-723-1/Benzoic-acid-hydrazide.pdf>

Generated by Cheméo on 2024-04-19 02:06:36.275025256 +0000 UTC m=+15781645.195602569.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.