

Benzamide, 3,4-fluoro-

Other names:	3,4-difluorobenzamide
Inchi:	InChI=1S/C7H5F2NO/c8-5-2-1-4(7(10)11)3-6(5)9/h1-3H,(H2,10,11)
InchiKey:	CMWOHNIHUBDEAG-UHFFFAOYSA-N
Formula:	C7H5F2NO
SMILES:	NC(=O)c1ccc(F)c(F)c1
Mol. weight [g/mol]:	157.12
CAS:	85118-04-3

Physical Properties

Property code	Value	Unit	Source
gf	-350.88	kJ/mol	Joback Method
hf	-445.23	kJ/mol	Joback Method
hfus	20.11	kJ/mol	Joback Method
hvap	50.53	kJ/mol	Joback Method
log10ws	-2.31		Crippen Method
logp	1.064		Crippen Method
mcvol	100.820	ml/mol	McGowan Method
pc	4114.41	kPa	Joback Method
tb	521.14	K	Joback Method
tc	736.51	K	Joback Method
tf	354.48	K	Joback Method
vc	0.391	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	216.62	J/mol×K	521.14	Joback Method
cpg	225.43	J/mol×K	557.04	Joback Method
cpg	233.71	J/mol×K	592.93	Joback Method
cpg	241.46	J/mol×K	628.83	Joback Method
cpg	248.70	J/mol×K	664.72	Joback Method
cpg	255.46	J/mol×K	700.62	Joback Method
cpg	261.74	J/mol×K	736.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C85118043&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

Latest version available from:

<https://www.chemeo.com/cid/59-712-6/Benzamide-3-4-fluoro.pdf>

Generated by Cheméo on 2024-04-27 14:46:52.47707984 +0000 UTC m=+16518461.397657162.

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