

3,4-Difluorobenzamide, N-(3-chlorophenyl)-

Inchi:	InChI=1S/C13H8ClF2NO/c14-9-2-1-3-10(7-9)17-13(18)8-4-5-11(15)12(16)6-8/h1-7H,(H,1)
InchiKey:	WMDKCKNMOPIRJG-UHFFFAOYSA-N
Formula:	C13H8ClF2NO
SMILES:	O=C(Nc1cccc(Cl)c1)c1ccc(F)c(F)c1
Mol. weight [g/mol]:	267.66

Physical Properties

Property code	Value	Unit	Source
gf	-186.57	kJ/mol	Joback Method
hf	-340.07	kJ/mol	Joback Method
hfus	33.40	kJ/mol	Joback Method
hvap	67.00	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	3.870		Crippen Method
mcvol	173.840	ml/mol	McGowan Method
pc	2770.08	kPa	Joback Method
rinpol	2224.00		NIST Webbook
rinpol	2224.00		NIST Webbook
tb	705.15	K	Joback Method
tc	936.96	K	Joback Method
tf	460.36	K	Joback Method
vc	0.673	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	426.65	J/mol×K	705.15	Joback Method
cpg	438.02	J/mol×K	743.78	Joback Method
cpg	448.45	J/mol×K	782.42	Joback Method
cpg	458.01	J/mol×K	821.05	Joback Method
cpg	466.73	J/mol×K	859.69	Joback Method
cpg	474.67	J/mol×K	898.32	Joback Method
cpg	481.87	J/mol×K	936.96	Joback Method

Sources

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=U358126&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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