

Benzophenone, 5-chloro-2-fluoro-2'-(2-hydroxyethyl)amino

Inchi:	InChI=1S/C15H13ClFNO2/c16-10-5-6-13(17)12(9-10)15(20)11-3-1-2-4-14(11)18-7-8-19/
InchiKey:	IMETWYMIHCCKDN-UHFFFAOYSA-N
Formula:	C15H13ClFNO2
SMILES:	O=C(c1cc(Cl)ccc1F)c1ccccc1NCCO
Mol. weight [g/mol]:	293.72

Physical Properties

Property code	Value	Unit	Source
gf	-111.74	kJ/mol	Joback Method
hf	-337.47	kJ/mol	Joback Method
hfus	39.58	kJ/mol	Joback Method
hvap	88.95	kJ/mol	Joback Method
log10ws	-4.14		Crippen Method
logp	3.114		Crippen Method
mcvol	206.120	ml/mol	McGowan Method
pc	2616.41	kPa	Joback Method
rinpola	2472.00		NIST Webbook
rinpola	2472.00		NIST Webbook
tb	843.82	K	Joback Method
tc	1063.39	K	Joback Method
tf	543.13	K	Joback Method
vc	0.786	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	569.07	J/molxK	843.82	Joback Method
cpg	579.21	J/molxK	880.41	Joback Method
cpg	588.54	J/molxK	917.01	Joback Method
cpg	597.10	J/molxK	953.60	Joback Method
cpg	604.95	J/molxK	990.20	Joback Method
cpg	612.14	J/molxK	1026.79	Joback Method
cpg	618.72	J/molxK	1063.39	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=R307852&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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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