Benzamide, N,N-dibutyl-2,3,4-trifluoro-

Inchi: InChI=1S/C15H20F3NO/c1-3-5-9-19(10-6-4-2)15(20)11-7-8-12(16)14(18)13(11)17/h7-8H
InchiKey: WPRNQGZFKDJNGX-UHFFFAOYSA-N
Formula: C15H20F3NO
SMILES: CCCCN(CCCC)C(=O)c1ccc(F)c(F)c1F
Mol. weight [g/mol]: 287.32

Physical Properties

Property code	Value	Unit	Source
gf	-443.63	kJ/mol	Joback Method
hf	-784.19	kJ/mol	Joback Method
hfus	41.34	kJ/mol	Joback Method
hvap	59.58	kJ/mol	Joback Method
log10ws	-5.12		Crippen Method
logp	4.146		Crippen Method
mcvol	215.310	ml/mol	McGowan Method
pc	1671.43	kPa	Joback Method
rinpol	1717.00		NIST Webbook
tb	648.34	K	Joback Method
tc	826.20	K	Joback Method
tf	406.96	K	Joback Method
vc	0.846	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	580.57	J/mol×K	648.34	Joback Method
cpg	595.48	J/mol×K	677.98	Joback Method
cpg	609.63	J/mol×K	707.63	Joback Method
cpg	623.05	J/mol×K	737.27	Joback Method
cpg	635.75	J/mol×K	766.91	Joback Method
cpg	647.77	J/mol×K	796.55	Joback Method
cpg	659.13	J/mol×K	826.20	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=U308418&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume