Benzamide, N,N-dihexyl-3-trifluoromethyl-

Inchi: InChI=1S/C20H30F3NO/c1-3-5-7-9-14-24(15-10-8-6-4-2)19(25)17-12-11-13-18(16-17)20
InchiKey: ODGFIYYZYLLNJF-UHFFFAOYSA-N
Formula: C20H30F3NO
SMILES: CCCCCCN(CCCCCC)C(=O)c1cccc(C(F)(F)F)c1
Mol. weight [g/mol]: 357.45

Physical Properties

Property code	Value	Unit	Source
gf	-379.43	kJ/mol	Joback Method
hf	-873.20	kJ/mol	Joback Method
hfus	47.65	kJ/mol	Joback Method
hvap	68.09	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.308		Crippen Method
mcvol	285.760	ml/mol	McGowan Method
pc	1208.15	kPa	Joback Method
rinpol	2087.00		NIST Webbook
rinpol	2087.00		NIST Webbook
tb	749.55	K	Joback Method
tc	931.20	K	Joback Method
tf	440.69	K	Joback Method
vc	1.115	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	861.95	J/mol×K	749.55	Joback Method
cpg	879.28	J/mol×K	779.83	Joback Method
cpg	895.63	J/mol×K	810.10	Joback Method
cpg	911.05	J/mol×K	840.38	Joback Method
cpg	925.60	J/mol×K	870.65	Joback Method
cpg	939.34	J/mol×K	900.93	Joback Method
cpg	952.32	J/mol×K	931.20	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308225&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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