

«beta»-Alanine, N-(3-trifluoromethylbenzoyl)-, decyl ester

Inchi:	InChI=1S/C21H30F3NO3/c1-2-3-4-5-6-7-8-9-15-28-19(26)13-14-25-20(27)17-11-10-12-1
InchiKey:	SLTRGONNPBNSKM-UHFFFAOYSA-N
Formula:	C21H30F3NO3
SMILES:	CCCCCCCCCOC(=O)CCNC(=O)c1cccc(C(F)(F)F)c1
Mol. weight [g/mol]:	401.46

Physical Properties

Property code	Value	Unit	Source
gf	-626.32	kJ/mol	Joback Method
hf	-1152.70	kJ/mol	Joback Method
hfus	55.11	kJ/mol	Joback Method
hvap	83.87	kJ/mol	Joback Method
log10ws	-6.81		Crippen Method
logp	5.509		Crippen Method
mcvol	307.290	ml/mol	McGowan Method
pc	1179.28	kPa	Joback Method
rinsol	2634.00		NIST Webbook
tb	886.45	K	Joback Method
tc	1087.07	K	Joback Method
tf	544.31	K	Joback Method
vc	1.212	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	989.91	J/mol×K	886.45	Joback Method
cpg	1005.08	J/mol×K	919.89	Joback Method
cpg	1019.21	J/mol×K	953.32	Joback Method
cpg	1032.34	J/mol×K	986.76	Joback Method
cpg	1044.54	J/mol×K	1020.19	Joback Method
cpg	1055.86	J/mol×K	1053.63	Joback Method
cpg	1066.37	J/mol×K	1087.07	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U321593&Units=SI

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
m cvol:	McGowan's characteristic volume
pc:	Critical Pressure
r inpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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