

D-Alanine, N-(4-fluoro-2-trifluoromethylbenzoyl)-, nonyl

Inchi:
ester

InChI=1S/C20H27F4NO3/c1-3-4-5-6-7-8-9-12-28-19(27)14(2)25-18(26)16-11-10-15(21)1

InchiKey:

UANNRWVARVBUSV-UHFFFAOYSA-N

Formula:

C20H27F4NO3

SMILES:

CCCCCCCCCOC(=O)C(C)NC(=O)c1ccc(F)cc1C(F)(F)F

Mol. weight [g/mol]:

405.43

Physical Properties

Property code	Value	Unit	Source
gf	-841.62	kJ/mol	Joback Method
hf	-1344.92	kJ/mol	Joback Method
hfus	51.69	kJ/mol	Joback Method
hvap	81.10	kJ/mol	Joback Method
log10ws	-6.83		Crippen Method
logp	5.257		Crippen Method
mcvol	294.970	ml/mol	McGowan Method
pc	1215.74	kPa	Joback Method
rinpol	2343.00		NIST Webbook
rinpol	2343.00		NIST Webbook
tb	867.38	K	Joback Method
tc	1064.65	K	Joback Method
tf	531.15	K	Joback Method
vc	1.167	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	937.66	J/molxK	867.38	Joback Method
cpg	952.19	J/molxK	900.26	Joback Method
cpg	965.71	J/molxK	933.14	Joback Method
cpg	978.25	J/molxK	966.02	Joback Method
cpg	989.88	J/molxK	998.89	Joback Method
cpg	1000.64	J/molxK	1031.77	Joback Method
cpg	1010.59	J/molxK	1064.65	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U348406&Units=SI
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

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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