L-Valine, N-(3-methylbenzoyl)-, dodecyl ester

Inchi: InChI=1S/C25H41NO3/c1-5-6-7-8-9-10-11-12-13-14-18-29-25(28)23(20(2)3)26-24(27)22
InchiKey: SNLYKFWFADTFIU-UHFFFAOYSA-N
Formula: C25H41NO3
SMILES: CCCCCCCCCCCCOC(=O)C(N=C(O)c1cccc(C)c1)C(C)C
Mol. weight [g/mol]: 403.60

Physical Properties

Property code	Value	Unit	Source
hf	-669.43	kJ/mol	Joback Method
hvap	102.63	kJ/mol	Joback Method
log10ws	-7.27		Crippen Method
logp	6.788		Crippen Method
mcvol	358.340	ml/mol	McGowan Method
pc	947.91	kPa	Joback Method
rinpol	2989.00		NIST Webbook
rinpol	2989.00		NIST Webbook
tb	1047.21	K	Joback Method
tc	1284.87	K	Joback Method

Sources

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=U346651&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

hf: Enthalpy of formation 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