N-(3-Methoxybenzyl)palmitamide

Inchi: InChI=1S/C24H41NO2/c1-3-4-5-6-7-8-9-10-11-12-13-14-15-19-24(26)25-21-22-17-16-18
InchiKey: FIQGQTITXPTKIY-UHFFFAOYSA-N
Formula: C24H41NO2
SMILES: CCCCCCCCCCCCCCCC(O)=NCc1cccc(OC)c1
Mol. weight [g/mol]: 375.59
CAS: 847361-96-0

Physical Properties

Property code	Value	Unit	Source
hf	-525.65	kJ/mol	Joback Method
hvap	94.44	kJ/mol	Joback Method
log10ws	-8.15		Crippen Method
logp	7.633		Crippen Method
mcvol	342.680	ml/mol	McGowan Method
pc	957.91	kPa	Joback Method
rinpol	3105.40		NIST Webbook
rinpol	3105.40		NIST Webbook
tb	971.34	K	Joback Method
tc	1189.70	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C847361960&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
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

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