Isophthalic acid, monoamide, N-(2-ethylhexyl)-, octyl ester

Inchi: InChI=1S/C24H39NO3/c1-4-7-9-10-11-12-17-28-24(27)22-16-13-15-21(18-22)23(26)25-1

InchiKey: WCGZHZFNLDIYGD-UHFFFAOYSA-N

Formula: C24H39NO3

SMILES: CCCCCCCCOC(=O)c1cccc(C(O)=NCC(CC)CCCC)c1

Mol. weight [g/mol]: 389.57

Physical Properties

Property code	Value	Unit	Source
hf	-643.51	kJ/mol	Joback Method
hvap	100.80	kJ/mol	Joback Method
log10ws	-7.22		Crippen Method
logp	6.725		Crippen Method
mcvol	344.250	ml/mol	McGowan Method
pc	1001.44	kPa	Joback Method
rinpol	3121.00		NIST Webbook
rinpol	3121.00		NIST Webbook
tb	1024.77	K	Joback Method
tc	1256.04	K	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=U345841&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