Sarcosine, N-(2-methoxybenzoyl)-, pentadecyl ester

Inchi: InChI=1S/C26H43NO4/c1-4-5-6-7-8-9-10-11-12-13-14-15-18-21-31-25(28)22-27(2)26(29

InchiKey: CYKHYUYZAFBZHT-UHFFFAOYSA-N

Formula: C26H43NO4

SMILES: CCCCCCCCCCCCCCCOC(=O)CN(C)C(=O)c1ccccc1OC

Mol. weight [g/mol]: 433.62

Physical Properties

Property code	Value	Unit	Source
gf	-86.24	kJ/mol	Joback Method
hf	-776.98	kJ/mol	Joback Method
hfus	65.34	kJ/mol	Joback Method
hvap	96.76	kJ/mol	Joback Method
log10ws	-7.30		Crippen Method
logp	6.402		Crippen Method
mcvol	378.300	ml/mol	McGowan Method
pc	913.84	kPa	Joback Method
tb	990.96	K	Joback Method
tc	1214.66	K	Joback Method
tf	598.51	K	Joback Method
vc	1.450	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1287.75	J/mol×K	990.96	Joback Method
cpg	1305.48	J/mol×K	1028.24	Joback Method
cpg	1321.64	J/mol×K	1065.53	Joback Method
cpg	1336.29	J/mol×K	1102.81	Joback Method
cpg	1349.51	J/mol×K	1140.09	Joback Method
cpg	1361.35	J/mol×K	1177.38	Joback Method
cpg	1371.87	J/mol×K	1214.66	Joback Method

Sources

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=U321152&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume