

Phthalic acid, hexyl 3-methoxy-4-nitrobenzyl ester

Inchi:	InChI=1S/C22H25NO7/c1-3-4-5-8-13-29-21(24)17-9-6-7-10-18(17)22(25)30-15-16-11-12
InchiKey:	FLZYRSJAXLMYOF-UHFFFAOYSA-N
Formula:	C22H25NO7
SMILES:	CCCCCOC(=O)c1ccccc1C(=O)OCc1ccc([N+](=O)[O-])c(OC)c1
Mol. weight [g/mol]:	415.44

Physical Properties

Property code	Value	Unit	Source
gf	-207.00	kJ/mol	Joback Method
hf	-691.34	kJ/mol	Joback Method
hfus	57.77	kJ/mol	Joback Method
hvap	108.42	kJ/mol	Joback Method
log10ws	-6.93		Crippen Method
logp	4.697		Crippen Method
mvol	311.490	ml/mol	McGowan Method
pc	1450.14	kPa	Joback Method
rinpol	3685.00		NIST Webbook
rinpol	3685.00		NIST Webbook
tb	1097.90	K	Joback Method
tc	1347.03	K	Joback Method
tf	738.26	K	Joback Method
vc	1.200	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1013.99	J/mol×K	1097.90	Joback Method
cpg	1021.95	J/mol×K	1139.42	Joback Method
cpg	1028.11	J/mol×K	1180.94	Joback Method
cpg	1032.49	J/mol×K	1222.47	Joback Method
cpg	1035.12	J/mol×K	1263.99	Joback Method
cpg	1036.04	J/mol×K	1305.51	Joback Method
cpg	1035.26	J/mol×K	1347.03	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382534&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307I
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
h vap:	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
r in pol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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