

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

Inchi:	InChI=1S/C18H17NO7/c1-3-25-17(20)13-6-4-5-7-14(13)18(21)26-11-12-8-9-15(19(22)23
InchiKey:	VWHBAXLHQKWNFW-UHFFFAOYSA-N
Formula:	C18H17NO7
SMILES:	CCOC(=O)c1cccc1C(=O)OCc1ccc([N+](=O)[O-])c(OC)c1
Mol. weight [g/mol]:	359.33

Physical Properties

Property code	Value	Unit	Source
gf	-240.68	kJ/mol	Joback Method
hf	-608.78	kJ/mol	Joback Method
hfus	47.41	kJ/mol	Joback Method
hvap	99.51	kJ/mol	Joback Method
log10ws	-5.26		Crippen Method
logp	3.137		Crippen Method
mvol	255.130	ml/mol	McGowan Method
pc	1989.43	kPa	Joback Method
rinpol	3176.00		NIST Webbook
rinpol	3176.00		NIST Webbook
tb	1006.38	K	Joback Method
tc	1253.28	K	Joback Method
tf	693.18	K	Joback Method
vc	0.976	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	783.02	J/mol×K	1006.38	Joback Method
cpg	791.51	J/mol×K	1047.53	Joback Method
cpg	798.40	J/mol×K	1088.68	Joback Method
cpg	803.69	J/mol×K	1129.83	Joback Method
cpg	807.40	J/mol×K	1170.98	Joback Method
cpg	809.53	J/mol×K	1212.13	Joback Method
cpg	810.08	J/mol×K	1253.28	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U382529&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
hvp:	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
rinp:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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