2-Naphthalenecarboxamide, N-(2,5-dimethoxyphenyl)-3-hydroxy-

Other names:	Acna Naphthol BG
	Amanil Naphthol AS-BG
	Azoic Coupling Component 19
	Brenthol FO
	C.I. Azoic Coupling Component 19
	C.I. 37545
	Cibanaphthol RDM
	Daito Grounder BG
	Hiltonaphthol AS-BG
	Naphtanilide BG
	Naphtanilide BG Supra
	Naphtazol BJ
	Naphthol AS-BG
	Naphthol AS-BG Dispersible
	Naphthol AS-BG Supra
	Naphtol AS-BG
	Naphtol AS-BG Supra
	Sanatol BG
	Solunaptol FOL
	Tulathol AS BG
	2-Naphthanilide, 3-hydroxy-2',5'-dimethoxy-
	NSC 37618
	3-hydroxy-2',5'-dimethoxynaphthanilide
Inchi:	InChI=1S/C19H17NO4/c1-23-14-7-8-18(24-2)16(11-14)20-19(22)15-9-12-5-3-4-6-13(12)
InchiKey:	LAKNSQZHAUYJJM-UHFFFAOYSA-N
Formula:	C19H17NO4
SMILES:	COc1ccc(OC)c(NC(=O)c2cc3ccccc3cc2O)c1
Mol. weight [g/mol]:	323.34
CAS:	92-73-9

Physical Properties

Property code	Value	Unit	Source
gf	7.53	kJ/mol	Joback Method
hf	-306.63	kJ/mol	Joback Method
hfus	43.76	kJ/mol	Joback Method
hvap	97.08	kJ/mol	Joback Method

log10ws	-5.04		Crippen Method
logp	3.815		Crippen Method
mcvol	240.750	ml/mol	McGowan Method
pc	2527.73	kPa	Joback Method
tb	950.90	K	Joback Method
tc	1199.59	K	Joback Method
tf	685.76	K	Joback Method
vc	0.849	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	733.08	J/mol×K	950.90	Joback Method
cpg	745.68	J/mol×K	992.35	Joback Method
cpg	757.63	J/mol×K	1033.80	Joback Method
cpg	769.08	J/mol×K	1075.24	Joback Method
cpg	780.13	J/mol×K	1116.69	Joback Method
cpg	790.92	J/mol×K	1158.14	Joback Method
cpg	801.57	J/mol×K	1199.59	Joback Method

Sources

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
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C92739&Units=SI

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