1,4-Benzenedicarboxamide, n,n'-bis(2-hydroxyphenyl)-

Inchi: InChI=1S/C20H16N2O4/c23-17-7-3-1-5-15(17)21-19(25)13-9-11-14(12-10-13)20(26)22-1

InchiKey: DWMCVBVYKHYJET-UHFFFAOYSA-N

Formula: C20H16N2O4

SMILES: O=C(Nc1ccccc1O)c1ccc(C(=O)Nc2ccccc2O)cc1

Mol. weight [g/mol]: 348.35

CAS: 15457-47-3

Physical Properties

Property code	Value	Unit	Source
gf	56.82	kJ/mol	Joback Method
hf	-230.85	kJ/mol	Joback Method
hfus	54.25	kJ/mol	Joback Method
hvap	120.00	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	3.602		Crippen Method
mcvol	256.220	ml/mol	McGowan Method
pc	3419.86	kPa	Joback Method
tb	1111.34	K	Joback Method
tc	1383.10	K	Joback Method
tf	835.56	K	Joback Method
vc	0.846	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	826.34	J/mol×K	1111.34	Joback Method
cpg	842.35	J/mol×K	1156.63	Joback Method
cpg	859.33	J/mol×K	1201.93	Joback Method
cpg	877.58	J/mol×K	1247.22	Joback Method
cpg	897.42	J/mol×K	1292.52	Joback Method
cpg	919.14	J/mol×K	1337.81	Joback Method
cpg	943.05	J/mol×K	1383.10	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C15457473&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

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