Benzoic acid, 2-amino-, phenyl ester

Other names: phenyl anthranilate
Inchi: InChI=1S/C13H11NO2/c14-12-9-5-4-8-11(12)13(15)16-10-6-2-1-3-7-10/h1-9H,14H2
InchiKey: ZBFSYQBEXZGTAX-UHFFFAOYSA-N
Formula: C13H11NO2
SMILES: Nc1ccccc1C(=O)Oc1ccccc1
Mol. weight [g/mol]: 213.23
CAS: 10268-69-6

Physical Properties

Property code	Value	Unit	Source
gf	106.30	kJ/mol	Joback Method
hf	-61.07	kJ/mol	Joback Method
hfus	25.10	kJ/mol	Joback Method
hvap	69.54	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	2.488		Crippen Method
mcvol	163.930	ml/mol	McGowan Method
pc	3395.98	kPa	Joback Method
tb	704.00	K	Joback Method
tc	958.33	K	Joback Method
tf	457.05	K	Joback Method
vc	0.601	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	422.53	J/mol×K	704.00	Joback Method
cpg	435.97	J/mol×K	746.39	Joback Method
cpg	448.22	J/mol×K	788.78	Joback Method
cpg	459.34	J/mol×K	831.17	Joback Method
cpg	469.38	J/mol×K	873.55	Joback Method
cpg	478.39	J/mol×K	915.94	Joback Method
cpg	486.42	J/mol×K	958.33	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=C10268696&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