Aniline, p-(2,3-epoxypropoxy)-N,N-bis(2,3-epoxypropyl)-

Other names: Oxiranemethanamine, N-[4-(oxiranylmethoxy)phenyl]-N-(oxiranylmethyl)-
p-(Diglycidylamino)phenyl glycidyl ether
p-Aminophenol triglycidyl ether
ERL 0500
N,N,O-Tris(2,3-epoxypropyl)-p-aminophenol
4-(Diglycidylamino)phenyl glycidyl ether
2-Oxiranemethanamine, N-[4-(2-oxiranylmethoxy)phenyl]-N-(2-oxiranylmethyl)-
p-(2,3-epoxypropoxy)-N,N-bis(2,3-epoxypropyl)aniline
N,N,N-Glycidyl p-aminophenol

Inchi: InChI=1S/C15H19NO4/c1-3-12(17-9-15-10-20-15)4-2-11(1)16(5-13-7-18-13)6-14-8-19-14

InchiKey: AHIPJALLQVEEQF-UHFFFAOYSA-N

Formula: C15H19NO4

SMILES: c1cc(N(CC2CO2)CC2CO2)ccc1OCC1CO1

Mol. weight [g/mol]: 277.32

CAS: 5026-74-4

Physical Properties

Property code	Value	Unit	Source
gf	107.87	kJ/mol	Joback Method
hf	-370.16	kJ/mol	Joback Method
hfs	-110.50 ± 1.40	kJ/mol	NIST Webbook
hfus	50.81	kJ/mol	Joback Method
hvap	69.64	kJ/mol	Joback Method
log10ws	-1.29		Crippen Method
logp	1.068		Crippen Method
mcvol	199.330	ml/mol	McGowan Method
pc	2505.01	kPa	Joback Method
tb	710.19	K	Joback Method
tc	932.35	K	Joback Method
tf	485.98	K	Joback Method
vc	0.738	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	617.16	J/mol×K	710.19	Joback Method
cpg	634.23	J/mol×K	747.22	Joback Method
cpg	650.12	J/mol×K	784.24	Joback Method
cpg	664.96	J/mol×K	821.27	Joback Method
cpg	678.88	J/mol×K	858.30	Joback Method
cpg	692.00	J/mol×K	895.32	Joback Method
cpg	704.46	J/mol×K	932.35	Joback Method

Sources

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=C5026744&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfs: Solid phase 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

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