Diazene, bis(4-ethoxyphenyl)-, 1-oxide

Other names:	Azoxybenzene, 4,4'-diethoxy-
	p,p'-Azoxyphenetole
	4,4'-Azoxydiphenetole
	4,4'-Azoxyphenetole
	4,4'-Bis(ethoxy)azoxybenzene
	4,4'-Diethoxyazoxybenzene
	p-Azoxyphenetole
	p,p'-Azoxydiphenetole
	p,p'-Diethoxyazoxybenzene
	Azoxyphenetole
	NSC 142006
	p,p'-Diethyloxyazoxybenzene
	PAP
	Phenetole, 4,4'-azoxydi-
Inchi:	InChI=1S/C16H18N2O3/c1-3-20-15-9-5-13(6-10-15)17-18(19)14-7-11-16(12-8-14)21-4-2
InchiKey:	QUICZVHSJNKDBL-UHFFFAOYSA-N
Formula:	C16H18N2O3
SMILES:	CCOc1ccc(N=[N+]([O-])c2ccc(OCC)cc2)cc1
Mol. weight [g/mol]:	286.33
CAS:	4792-83-0

Physical Properties

Property code	Value	Unit	Source
chs	-8705.00 ± 1.50	kJ/mol	NIST Webbook
chs	-8822.80	kJ/mol	NIST Webbook
chs	-8822.80	kJ/mol	NIST Webbook
hf	-37.40 ± 3.70	kJ/mol	NIST Webbook
hfs	-163.60 ± 2.60	kJ/mol	NIST Webbook
hfs	-45.60	kJ/mol	NIST Webbook
hfs	-45.86	kJ/mol	NIST Webbook
hsub	126.20 ± 2.70	kJ/mol	NIST Webbook
hsub	126.20 ± 2.70	kJ/mol	NIST Webbook
ie	7.20	eV	NIST Webbook
ie	7.65	eV	NIST Webbook
log10ws	-4.48		Crippen Method
logp	4.410		Crippen Method
mcvol	222.050	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpl	607.00	J/mol×K	430.00	NIST Webbook
hfust	27.00	kJ/mol	406.50	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4792830&Units=SI

Legend

chs:	Standard solid enthalpy of combustion
cpl:	Liquid phase heat capacity
hf:	Enthalpy of formation at standard conditions
hfs:	Solid phase enthalpy of formation at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hsub:	Enthalpy of sublimation at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume