Ether, 2,4-dibromophenyl p-nitrophenyl-

Other names: Ether, 2,6-dichlorophenyl p-nitrophenyl-,
Inchi: InChI=1S/C12H7Cl2NO3/c13-10-2-1-3-11(14)12(10)18-9-6-4-8(5-7-9)15(16)17/h1-7H
InchiKey: NCCRTWSKGUMZTF-UHFFFAOYSA-N
Formula: C12H7Cl2NO3
SMILES: O=[N+]([O-])c1ccc(Oc2c(Cl)cccc2Cl)cc1
Mol. weight [g/mol]: 284.10
CAS: 2093-28-9

Physical Properties

Property code	Value	Unit	Source
gf	152.78	kJ/mol	Joback Method
hf	-26.82	kJ/mol	Joback Method
hfus	34.69	kJ/mol	Joback Method
hvap	76.61	kJ/mol	Joback Method
log10ws	-5.13		Crippen Method
logp	4.694		Crippen Method
mcvol	180.190	ml/mol	McGowan Method
pc	2979.54	kPa	Joback Method
tb	791.38	K	Joback Method
tc	1065.45	K	Joback Method
tf	541.08	K	Joback Method
vc	0.690	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	435.12	J/mol×K	791.38	Joback Method
cpg	445.46	J/mol×K	837.06	Joback Method
cpg	454.67	J/mol×K	882.74	Joback Method
cpg	462.81	J/mol×K	928.41	Joback Method
cpg	469.92	J/mol×K	974.09	Joback Method
cpg	476.06	J/mol×K	1019.77	Joback Method
cpg	481.28	J/mol×K	1065.45	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=C2093289&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