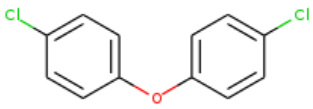
Benzene, 1,1'-oxybis[4-chloro-

Other names: 4,4'-Dichlorodiphenyl ether; Benzene, 1,1'-oxybis*4-chloro-; Bis(p-chlorophenyl) ether; Ether, bis(p-chlorophenyl); p,p'-Dichlorodiphenyl oxide.

InChI: InChI=1S/C12H8Cl2O/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H



InChI Key: URUJZHZLCCIILC-UHFFFAOYSA-N

Formula: C12H8Cl2O

SMILES: Clc1ccc(Oc2ccc(Cl)cc2)cc1

Molecular Weight: 239.10

CAS: 2444-89-5

Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	126.86	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-4.59	kJ/mol	Joback Method
$\Delta_{fus} H°$	23.72	kJ/mol	Joback Method
$\Delta_{vap} H°$	59.36	kJ/mol	Joback Method
$logP_{oct/wat}$	4.79		Crippen Method
P_c	2989.32	kPa	Joback Method
T_{boil}	634.56	K	Joback Method
T_c	889.75	K	Joback Method
T_{fus}	384.95	K	Joback Method
V_c	0.61	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	351.12	J/mol×K	634.56	Joback Method
η	0.00	Pa×s	634.56	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C12H8Cl2O/c13-9-1-5-11(6-2-9)15-12-7-3-10(14)4-8-12/h1-8H
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

$\mathbf{C_{p,gas}}$: Ideal gas heat capacity (J/mol×K).
η: Dynamic viscosity (Pa×s).
$\Delta_f\mathbf{G°}$: Standard Gibbs free energy of formation (kJ/mol).
$\Delta_f\mathbf{H°_{gas}}$: Enthalpy of formation at standard conditions (kJ/mol).
$\Delta_{fus}\mathbf{H°}$: Enthalpy of fusion at standard conditions (kJ/mol).
$\Delta_{vap}\mathbf{H°}$: Enthalpy of vaporization at standard conditions (kJ/mol).
$\boldsymbol{log}\mathbf{P_{oct/wat}}$: Octanol/Water partition coefficient .
$\mathbf{P_c}$: Critical Pressure (kPa).
$\mathbf{T_{boil}}$: Normal Boiling Point Temperature (K).
$\mathbf{T_c}$: Critical Temperature (K).
$\mathbf{T_{fus}}$: Normal melting (fusion) point (K).
$\mathbf{V_c}$: Critical Volume (m^3/kg-mol).