Benzene, 1,4-bis(p-phenoxyphenoxy)-

InChI: InChI=1S/C30H22O4/c1-3-7-23(8-4-1)31-25-11-15-27(16-12-25)33-29-19-21-30(22-20-29)34-28-17-13-26(14-18-28)32-24-9-5-2-6-10-24/h1-22H

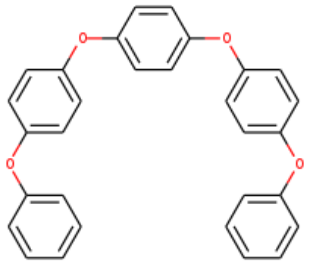
InChI Key: QJUDDNWGFYFRFN-UHFFFAOYSA-N

Formula: C30H22O4

SMILES: c1ccc(Oc2ccc(Oc3ccc(Oc4ccc(Oc5ccccc5)cc4)cc3)cc2)cc1

Molecular Weight: 446.49

CAS: 2455-43-8



Physical Properties

Property	Value	Unit	Source
$\Delta_f G°$	314.88	kJ/mol	Joback Method
$\Delta_f H°_{gas}$	-43.17	kJ/mol	Joback Method
$\Delta_{fus} H°$	47.25	kJ/mol	Joback Method
$\Delta_{vap} H°$	105.38	kJ/mol	Joback Method
$log P_{oct/wat}$	8.86		Crippen Method
P_c	1530.66	kPa	Joback Method
T_{boil}	1123.82	K	Joback Method
T_c	1400.77	K	Joback Method
T_{fus}	686.44	K	Joback Method
V_c	1.25	m^3/kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,gas}$	1071.36	J/mol×K	1123.82	Joback Method
η	0.00	Pa×s	1123.82	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method
NIST Webbook: http://webbook.nist.gov/cgi/inchi/InChI=1S/C30H22O4/c1-3-7-23(8-4-1)31-25-11-15-27(16-12-25)33-29-19-21-30(22-20-29)34-28-17-13-26(14-18-28)32-24-9-5-2-6-10-24/h1-22H
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

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