Phenol, 4,4'-(diphenylmethylene)di-

Inchi: InChI=1S/C25H20O2/c26-23-15-11-21(12-16-23)25(19-7-3-1-4-8-19,20-9-5-2-6-10-20)22
InchiKey: BATCUENAARTUKW-UHFFFAOYSA-N
Formula: C25H20O2
SMILES: Oc1ccc(C(c2ccccc2)(c2ccccc2)c2ccc(O)cc2)cc1
Mol. weight [g/mol]: 352.43
CAS: 1844-01-5

Physical Properties

Property code	Value	Unit	Source
gf	302.86	kJ/mol	Joback Method
hf	23.42	kJ/mol	Joback Method
hfus	40.82	kJ/mol	Joback Method
hvap	105.08	kJ/mol	Joback Method
log10ws	-5.77		Crippen Method
logp	5.480		Crippen Method
mcvol	279.810	ml/mol	McGowan Method
pc	2558.51	kPa	Joback Method
tb	1036.13	K	Joback Method
tc	1330.05	K	Joback Method
tf	703.05	K	Joback Method
vc	0.924	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	895.35	J/mol×K	1036.13	Joback Method
cpg	914.89	J/mol×K	1085.12	Joback Method
cpg	935.48	J/mol×K	1134.10	Joback Method
cpg	957.64	J/mol×K	1183.09	Joback Method
cpg	981.87	J/mol×K	1232.08	Joback Method
cpg	1008.69	J/mol×K	1281.06	Joback Method
cpg	1038.61	J/mol×K	1330.05	Joback Method
dvisc	0.0000016	Pa×s	703.05	Joback Method
dvisc	0.0000007	Pa×s	758.56	Joback Method

dvisc	0.0000003	Pa×s	814.08	Joback Method
dvisc	0.0000002	Pa×s	869.59	Joback Method
dvisc	0.0000001	Pa×s	925.10	Joback Method
dvisc	6.1852193e-08	Pa×s	980.62	Joback Method
dvisc	3.9811104e-08	Pa×s	1036.13	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1844015&Units=SI
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

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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

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