

# Bis-(3-benzoxypyhenyl) phthalate

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C34H26O6/c35-33(39-29-17-9-15-27(21-29)37-23-25-11-3-1-4-12-25)31-19-7-

PIWMKMLXJKXBBF-UHFFFAOYSA-N

C34H26O6

O=C(Oc1cccc(OCc2ccccc2)c1)c1ccccc1C(=O)Oc1cccc(OCc2ccccc2)c1

530.57

116402-24-5

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | 90.72   | kJ/mol  | Joback Method  |
| hf            | -350.89 | kJ/mol  | Joback Method  |
| hfus          | 60.80   | kJ/mol  | Joback Method  |
| hvap          | 127.78  | kJ/mol  | Joback Method  |
| log10ws       | -10.10  |         | Crippen Method |
| logp          | 7.283   |         | Crippen Method |
| mcvol         | 397.740 | ml/mol  | McGowan Method |
| pc            | 1262.85 | kPa     | Joback Method  |
| tb            | 1323.08 | K       | Joback Method  |
| tc            | 1619.91 | K       | Joback Method  |
| tf            | 831.38  | K       | Joback Method  |
| vc            | 1.484   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 1283.39   | J/mol×K | 1323.08         | Joback Method |
| cpg           | 1282.82   | J/mol×K | 1372.55         | Joback Method |
| cpg           | 1280.09   | J/mol×K | 1422.02         | Joback Method |
| cpg           | 1275.37   | J/mol×K | 1471.50         | Joback Method |
| cpg           | 1268.80   | J/mol×K | 1520.97         | Joback Method |
| cpg           | 1260.53   | J/mol×K | 1570.44         | Joback Method |
| cpg           | 1250.73   | J/mol×K | 1619.91         | Joback Method |
| dvisc         | 0.0000337 | Pa×s    | 831.38          | Joback Method |
| dvisc         | 0.0000207 | Pa×s    | 913.33          | Joback Method |

|       |           |      |         |               |
|-------|-----------|------|---------|---------------|
| dvisc | 0.0000138 | Pa×s | 995.28  | Joback Method |
| dvisc | 0.0000098 | Pa×s | 1077.23 | Joback Method |
| dvisc | 0.0000073 | Pa×s | 1159.18 | Joback Method |
| dvisc | 0.0000056 | Pa×s | 1241.13 | Joback Method |
| dvisc | 0.0000045 | Pa×s | 1323.08 | Joback Method |

## Sources

|                        |                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Crippen Method:</b> | <a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>                                       |
| <b>Crippen Method:</b> | <a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>                               |
| <b>Joback Method:</b>  | <a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>                                           |
| <b>McGowan Method:</b> | <a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>                           |
| <b>NIST Webbook:</b>   | <a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C116402245&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116402245&amp;Units=SI</a> |

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <b>dvisc:</b>   | Dynamic viscosity                               |
| <b>gf:</b>      | Standard Gibbs free energy of formation         |
| <b>hf:</b>      | Enthalpy of formation at standard conditions    |
| <b>hfus:</b>    | Enthalpy of fusion at standard conditions       |
| <b>hvap:</b>    | Enthalpy of vaporization at standard conditions |
| <b>log10ws:</b> | Log10 of Water solubility in mol/l              |
| <b>logp:</b>    | Octanol/Water partition coefficient             |
| <b>mcvol:</b>   | McGowan's characteristic volume                 |
| <b>pc:</b>      | Critical Pressure                               |
| <b>tb:</b>      | Normal Boiling Point Temperature                |
| <b>tc:</b>      | Critical Temperature                            |
| <b>tf:</b>      | Normal melting (fusion) point                   |
| <b>vc:</b>      | Critical Volume                                 |

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