

# Dibutyl chlorendate

|                      |                                                                                                                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other names:         | Chlorendic acid dibutyl ester<br>Dibutyl chlorendate<br>5-Norbornene-2,3-dicarboxylic acid, 1,4,5,6,7,7-hexachloro-, dibutyl ester<br>dibutyl 1,4,5,6,7,7-hexachlorobicyclo[2.2.1]hept-5-ene-2,3-dicarboxylate |
| Inchi:               | InChI=1S/C17H20Cl6O4/c1-3-5-7-26-13(24)9-10(14(25)27-8-6-4-2)16(21)12(19)11(18)15                                                                                                                              |
| InchiKey:            | UJAHPBDUQZFDLA-UHFFFAOYSA-N                                                                                                                                                                                    |
| Formula:             | C17H20Cl6O4                                                                                                                                                                                                    |
| SMILES:              | CCCCOC(=O)C1C(C(=O)OCCCC)C2(Cl)C(Cl)=C(Cl)C1(Cl)C2(Cl)Cl                                                                                                                                                       |
| Mol. weight [g/mol]: | 501.06                                                                                                                                                                                                         |

## Physical Properties

| Property code | Value   | Unit    | Source             |
|---------------|---------|---------|--------------------|
| af            | 0.7101  |         | Cheméo Relay (1.0) |
| hf            | -930.50 | kJ/mol  | Cheméo Relay (1.0) |
| hfus          | 49.48   | kJ/mol  | Joback Method      |
| hvap          | 108.85  | kJ/mol  | Cheméo Relay (1.0) |
| ie            | 9.33    | eV      | Cheméo Relay (1.0) |
| log10ws       | -6.85   |         | Cheméo Relay (1.0) |
| logp          | 5.751   |         | Crippen Method     |
| mcvol         | 312.690 | ml/mol  | McGowan Method     |
| pc            | 1420.78 | kPa     | Joback Method      |
| tb            | 633.22  | K       | Cheméo Relay (1.0) |
| tc            | 923.02  | K       | Cheméo Relay (1.0) |
| tf            | 348.94  | K       | Cheméo Relay (1.0) |
| vc            | 1.101   | m3/kmol | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value   | Unit    | Temperature [K] | Source        |
|---------------|---------|---------|-----------------|---------------|
| cpg           | 913.49  | J/mol×K | 979.10          | Joback Method |
| cpg           | 939.11  | J/mol×K | 1018.31         | Joback Method |
| cpg           | 967.08  | J/mol×K | 1057.52         | Joback Method |
| cpg           | 997.79  | J/mol×K | 1096.74         | Joback Method |
| cpg           | 1031.60 | J/mol×K | 1135.95         | Joback Method |

|     |         |         |         |               |
|-----|---------|---------|---------|---------------|
| cpg | 1068.91 | J/mol×K | 1175.16 | Joback Method |
| cpg | 1110.08 | J/mol×K | 1214.37 | Joback Method |

## Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C1770805&Units=SI>

Joback Method: [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

Crippen Method: [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

## Legend

|                 |                                                 |
|-----------------|-------------------------------------------------|
| <b>af:</b>      | Acentric Factor                                 |
| <b>cpg:</b>     | Ideal gas heat capacity                         |
| <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>ie:</b>      | Ionization energy                               |
| <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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