

# Succinic acid, di(4-methylbenzyl) ester

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

InChI=1S/C20H22O4/c1-15-3-7-17(8-4-15)13-23-19(21)11-12-20(22)24-14-18-9-5-16(2)0

MRSSVFPWJRFKRA-UHFFFAOYSA-N

C20H22O4

Cc1ccc(COC(=O)CCC(=O)OCc2ccc(C)cc2)cc1

326.39

## Physical Properties

| Property code | Value   | Unit    | Source         |
|---------------|---------|---------|----------------|
| gf            | -144.76 | kJ/mol  | Joback Method  |
| hf            | -495.61 | kJ/mol  | Joback Method  |
| hfus          | 40.43   | kJ/mol  | Joback Method  |
| hvap          | 84.30   | kJ/mol  | Joback Method  |
| log10ws       | -5.23   |         | Crippen Method |
| logp          | 3.870   |         | Crippen Method |
| mcvol         | 260.020 | ml/mol  | McGowan Method |
| pc            | 1716.03 | kPa     | Joback Method  |
| rinpol        | 2568.00 |         | NIST Webbook   |
| rinpol        | 2568.00 |         | NIST Webbook   |
| tb            | 872.90  | K       | Joback Method  |
| tc            | 1097.43 | K       | Joback Method  |
| tf            | 537.36  | K       | Joback Method  |
| vc            | 0.988   | m3/kmol | Joback Method  |

## Temperature Dependent Properties

| Property code | Value     | Unit    | Temperature [K] | Source        |
|---------------|-----------|---------|-----------------|---------------|
| cpg           | 780.36    | J/mol×K | 872.90          | Joback Method |
| cpg           | 794.45    | J/mol×K | 910.32          | Joback Method |
| cpg           | 807.26    | J/mol×K | 947.74          | Joback Method |
| cpg           | 818.81    | J/mol×K | 985.17          | Joback Method |
| cpg           | 829.14    | J/mol×K | 1022.59         | Joback Method |
| cpg           | 838.28    | J/mol×K | 1060.01         | Joback Method |
| cpg           | 846.26    | J/mol×K | 1097.43         | Joback Method |
| dvisc         | 0.0004522 | Pa×s    | 537.36          | Joback Method |

|       |           |      |        |               |
|-------|-----------|------|--------|---------------|
| dvisc | 0.0002722 | Pa×s | 593.28 | Joback Method |
| dvisc | 0.0001788 | Pa×s | 649.21 | Joback Method |
| dvisc | 0.0001255 | Pa×s | 705.13 | Joback Method |
| dvisc | 0.0000928 | Pa×s | 761.05 | Joback Method |
| dvisc | 0.0000716 | Pa×s | 816.98 | Joback Method |
| dvisc | 0.0000570 | Pa×s | 872.90 | Joback Method |

## Sources

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <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=U381068&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U381068&amp;Units=SI</a> |
| <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>                         |

## 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>rinpol:</b>  | Non-polar retention indices                     |
| <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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