

2-[2-[2-[2-[2-(2,2,3,3,4,4,4-Heptafluorobutanoyl)]]]]]-2,2,3,3,4,4,4-heptafluorobutanoate

Other names:

20,20,21,21,22,22,22-Heptafluoro-19-oxo-3,6,9,12,15,18-hexaoxadocos-1-yl hexaethylene glycol, bis(heptafluorobutyrate)

Inchi: InChI=1S/C20H24F14O9/c21-15(22,17(25,26)19(29,30)31)13(35)42-11-9-40-7-5-38-3-1-
InchiKey: DWSNSRVFOZDBFX-UHFFFAOYSA-N
Formula: C₂₀H₂₄F₁₄O₉
SMILES: O=C(OCCOCCOCCOCCOCCOCCOC(=O)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)C(F)(F)
Mol. weight [g/mol]: 674.38

Physical Properties

| Property code | Value | Unit | Source |
|---------------|----------|----------------------|----------------|
| gf | -3585.62 | kJ/mol | Joback Method |
| hf | -4404.87 | kJ/mol | Joback Method |
| hfus | 57.71 | kJ/mol | Joback Method |
| hvap | 71.26 | kJ/mol | Joback Method |
| log10ws | -3.94 | | Crippen Method |
| logp | 3.822 | | Crippen Method |
| mcpvol | 361.670 | ml/mol | McGowan Method |
| pc | 751.85 | kPa | Joback Method |
| rinpol | 1988.90 | | NIST Webbook |
| tb | 892.08 | K | Joback Method |
| tc | 1116.52 | K | Joback Method |
| tf | 593.41 | K | Joback Method |
| vc | 1.480 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------|---------|-----------------|---------------|
| cpg | 1226.75 | J/mol×K | 892.08 | Joback Method |
| cpg | 1242.01 | J/mol×K | 929.49 | Joback Method |
| cpg | 1255.66 | J/mol×K | 966.89 | Joback Method |
| cpg | 1267.80 | J/mol×K | 1004.30 | Joback Method |
| cpg | 1278.55 | J/mol×K | 1041.71 | Joback Method |
| cpg | 1287.99 | J/mol×K | 1079.11 | Joback Method |
| cpg | 1296.24 | J/mol×K | 1116.52 | Joback Method |

