SUPLEMENTARY MATERIAL

**Modeling of pure components high pressures densities using CK-SAFT and PC-SAFT equations**

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TABLE SI: Equations for the dispersion term used in different SAFT equations

|  |  |
| --- | --- |
| SAFT type | Dispersion term (*adisp*) |
| Original SAFT | |
|  | |
| CK-SAFT | |
| SAFT-VR | |
| PC-SAFT | |

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